

THE

Publishers' Weekly

THE AMERICAN

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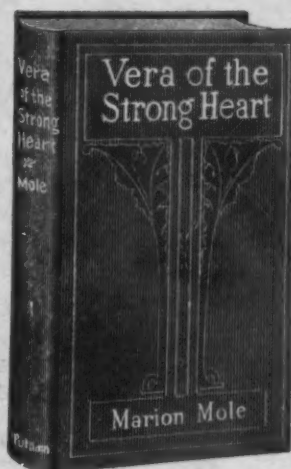
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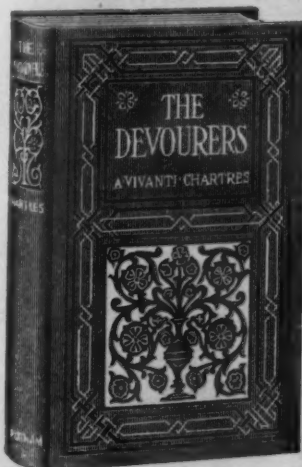


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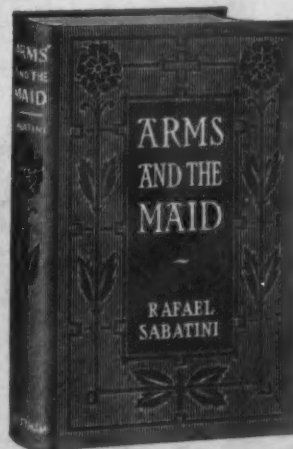
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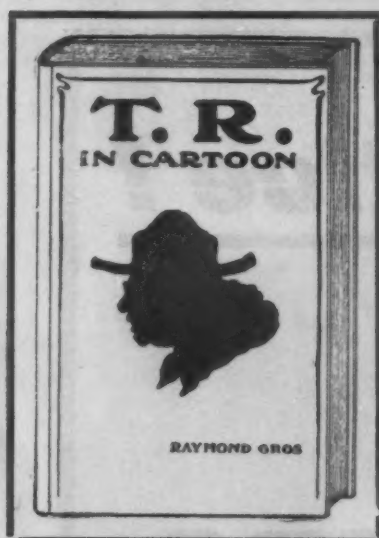
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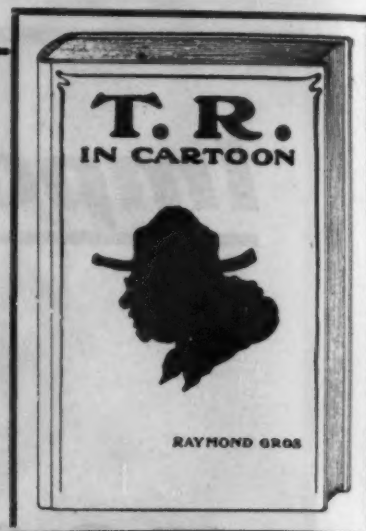
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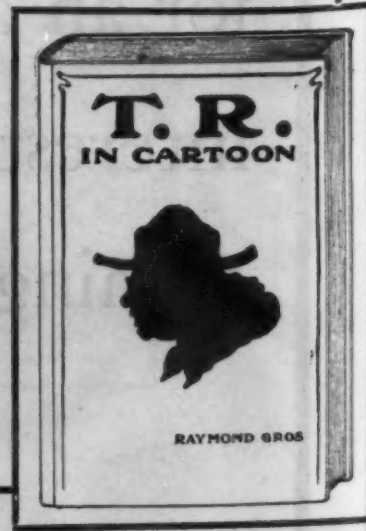
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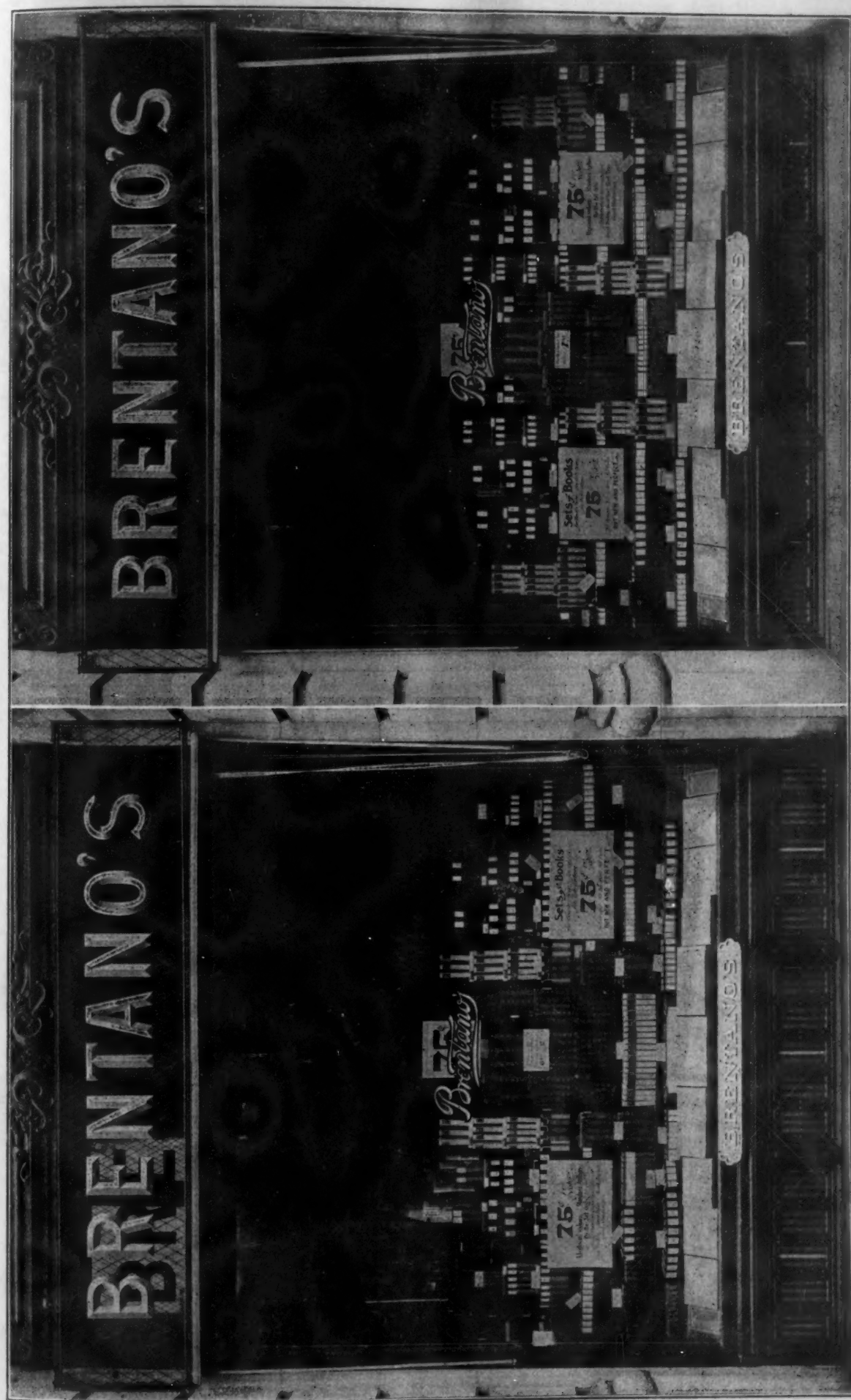
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Under "Books for Sale," or for other small undisplayed advertisements, the charge is 10 cents a nonpareil line. No reduction for repeated matter. Count seven words to the line. See under "Books Wanted" for special rates to subscribers.

Advertising copy should reach us Tuesday noon—earlier, if proof is desired out-of-town. Forms close Thursday noon.

PUBLICATION OFFICE, 298 BROADWAY, P. O. BOX, 943, N. Y.
R. R. BOWEN, Editor and Publisher.

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NOTES IN SEASON.

A. C. McCLURG & Co. offer help to the bookseller in retailing summer fiction in a series of counter cards descriptive of their books, sets of which may be had for the asking.

ATTENTION is called to the illustration of the display of Brentano's, New York City, who recently conducted a very successful sale of standard sets. Most of them were purchased from the Lamb Publishing Company, one of the largest jobbers of sets of books in the United States. Such a sale was an innovation for Brentano's, but it had such gratifying results that they intend to continue with mid-summer and annual sales in these lines.

THE SAALFIELD PUBLISHING Co. have ready on time for Mr. Roosevelt's reception "T. R. in Cartoon," compiled by Raymond Gros, a timely biography told in cartoon by Davenport, Oppen, Donahey, Chubb, Satterfield, Minor, etc., and by their foreign colleagues in foreign lands. There are 400 famous cartoons of the world-famous Roosevelt, from the time he first stepped into public life until his present triumphant homecoming. Striking posters for window display are sent out with orders.

G. P. PUTNAM'S SONS have made a beautiful book of "The Antietam and Its Bridges," in which Helen Ashe Hays tells the annals of that historic stream, and in which her work is illustrated with 17 photogravures from photographs by John C. Antz. They have also "Above Life's Turmoil," by James Allen, author of "As a Man Thinketh," who instructs his readers how to gain self-knowledge and self-discipline and how to meet the duties and difficulties of life fortified against undue anxiety regarding them.

DOUBLEDAY, PAGE & COMPANY issue this week the following publications: "Blaze Deringer," by Eugene P. Lyle, Jr., a whirlwind tale of adventure for a beautiful princess of "Sylvanlitla;" "The Water Goats and Other Troubles," by Ellis Parker Butler, three more convulsing tales in an inimitable style; "Highways of Progress," by James J. Hill, a discussion of the affairs which are molding the destinies of the country, by that country's Napoleon of finance; "Practical Real Estate Methods," thirty chapters by experts on how to buy, sell, lease, manage, appraise, improve and finance real estate.

THE JOHN LANE COMPANY offer a book for summer readers in Dolf Wyllarde's new book, "Tropical Tales and Others," published last week. In each case the author carefully gives the temperature proper to the story. Thus, for "Plaisir d'Amour," which has for its text the well-known lines:

"Plaisir d'Amour ne dure qu'un moment,
Chagrin d'Amour dure toute la vie!"

the time is English summer, and the temperature eighty-six in the shade. This unique method of writing the author explains as follows: "Atmosphere has more relation to human nature than is credited—especially by those who would think otherwise."

WILLIAM HENRY BALDWIN, JR., whose biography Houghton Mifflin Co. publish next week under the title "An American Citizen," was a director in thirty corporations, only eight less than J. P. Morgan, and became president of the Long Island Railroad within eleven years of his graduation from Harvard College in 1885. Charles Francis Adams, at that time president of the Union Pacific, said of him: "He is clear-headed, energetic, in every respect clean, and has quite a remarkable faculty for getting on with men." In addition he was a leader in tenement house reform, was famous for his liberal attitude toward trade unions among his employees and did much to improve the condition of the negroes.

Weekly Record of New Publications

The abbreviations are usually self-explanatory. c. after the date indicates that the book is copyrighted; if the copyright date differs from the imprint date, the year of copyright is added. Where no price is given the publisher quotes price only on request.

A color after initial designates the most usual given name, as: A: Augustus; B: Benjamin; C: Charles; D: David; E: Edward; F: Frederick; G: George; H: Henry; I: Isaac; J: John; L: Louis; N: Nicholas; P: Peter; R: Richard; S: Samuel; T: Thomas; W: William.

Sizes are designated as follows: F. (folio: over 30 centimeters high); Q. (4to: under 30 cm.); O. (8vo: 25 cm.); D. (12mo: 20 cm.); S. (16mo: 17½ cm.); T. (24mo: 15 cm.); Tt. (32mo: 12½ cm.); Fc. (48mo: 10 cm.). Sq., obl., nar., designate square, oblong, narrow. For books not received sizes are given in Roman numerals, 4°, 8°, etc.

Albee, J. Confessions of boyhood. Bost., Badger, 1910. c. 267 p. D. cl., \$1.50 net.

The story of the author's boyhood in an old-fashioned New England town, Bellingham, Mass. Simple annals of a quaint life which has passed away in these bustling times.

Allen, Ja. Above life's turmoil. N. Y., Putnam, [1910.] c. 6+163 p. S. hf. cl., \$1.

The author of "Mastery of destiny," "As a man thinketh," etc., here shows how even though the external circumstances of our lives may be full of turmoil we may cultivate a quiet mind, and without shirking duties and difficulties we can fortify ourselves against anxiety regarding them. Some of the chapters are: True happiness; The immortal man; The overcoming of self; Discrimination; Self-discipline; Contentment in activity, etc.

Ambler, C. H. Sectionalism in Virginia from 1776 to 1861. Chic., Univ. of Chic. Press, 1910. c. 9+366 p. D. cl., \$1.50 net.

From earliest times Virginia was a land of sectional differences, which influenced to an important degree the course of her history. English, Scotch-Irish, Germans, with their differing religions, Anglican, Baptist, Presbyterian, Quaker and Mennonite. Mr. Ambler has divided his material into three periods, the first beginning with colonial times and ending with Bacon's rebellion; the second including the emigration into the Piedmont, the Revolution, and the Constitutional Convention of 1829-30; and the third beginning with the demand of the Trans-Alleghany section for a greater voice in the state government, which led to dismemberment just before the Civil War. Bibliography (10½ p.). Index.

American Academy of Political and Social Science. Significance of the woman suffrage movement. Phil., Am. Acad. of Polit. and Social Sci., [1910.] c. 37 p. Q. (Supplement to Annals.) pap., 50 c.

Contents: Introductory remarks of the president of the Academy, L. S. Rowe; Introductory remarks by the presiding officer, Robert L. Owen; The logical basis of woman suffrage, Anna G. Spencer; The position of the anti-suffragists, Mrs. Gilbert E. Jones; The woman suffrage movement in Great Britain, Alice Paul; Answer to the arguments in support of woman suffrage, Lyman Abbott; Woman suffrage an aid to social reform, Mrs. Frederick Nathan; The inadvisability of woman suffrage, Charles H. Parkhurst.

Amusement (The) situation in the city of Boston; based on a study of the theatres for ten weeks, from Nov. 28, 1909, to Feb. 5, 1910; being a report prepared by the Drama Committee of the Twentieth Century Club. [Bost., Twentieth Century Club, 3 Joy St., 1910.] 35 p. 12°, pap., 10 c.

Annual register (The); a review of public events at home and abroad for the year 1909; new series. N. Y., Longmans, Green, 1910. 9+170 p. O. cl., \$6.

Arthur, W. The new building estimator; a practical guide to estimating the cost of labor and material in building construction, from excavation to finish; with various practical examples of work presented in detail, and with labor figured chiefly in hours and quantities; a handbook for architects, builders, contractors, appraisers,

engineers, superintendents and draftsmen. 3d ed., rev. and enl. N. Y., D: Williams Co., 1910. 502 p. il. tabs., 16°, cl., \$2.50.

Barton, W. Eleazar. A Congregational manual; theory and practice, for the use of ministers, churches and deliberative assemblies governed by Congregational usage. Oak Park, Ill., Puritan Press, 1910. c. 4+7-258 p. 16°, \$1.

Barus, Carl. Condensation of vapor as induced by nuclei and ions; fourth report. Wash., D. C., Carnegie Inst., 1910. c. 8+84 p. figs. tabs., O. pap., 75 c.

Author is Hazard professor of physics, Brown University.

Basmajian, Krikor Hagop. Life in the Orient; with numerous illustrations. N. Y., Amer. Tract Soc., [1910.] c. 277 p. pls. pors. 8°, cl., \$1 net.

Bottomley, Gordon. A vision of Giorgione; three variations on Venetian themes. Portland, Me., T: B. Mosher, 1910. c. 3-45 p. 12°, \$1.50.

Brockett, Paul. Bibliography of aeronautics; Hodgkins fund. Wash., D. C., Smithsonian Inst., 1910. 14+940 p. O. (Smithsonian miscellaneous collections.) cl., \$2.25; pap., \$2.

Nearly 13,500 works arranged by authors, subjects and titles and covering the subject of aeronautics up to July, 1909, are included in this bibliography, which is the work of the assistant librarian of the Smithsonian Institution.

Brummitt, Dan. Brearley, ed. Notes on the Epworth League devotional meeting topics. 2d ser., 1910, July-December. N. Y., Eaton & Mains, [1910.] c. 80 p. D. pap., 15 c.

Burhans, Viola. The cave-woman; a novel of to-day. N. Y., Holt, 1910. c. 339 p. D. cl., \$1.50.

This is not a story of a prehistoric "cave dweller," but an entirely romantic tale of a real cave woman. The romance begins and ends literally in a cave—and in one so dark that Roger Creighton, the hero, cannot distinguish so much as an eyelash of the woman who is his companion, and who refuses to disclose her identity. He is given permission, however, to search for her at her stopping place, a fashionable mountain hotel. Another woman was also hidden in the cave, and is involved in a jewel robbery which Creighton is engaged in following up for his paper. The denouement is as satisfactory as it is unexpected.

Calkins, Mary Whiton. A first book in psychology. N. Y., Macmillan, 1910. 16+424 p. 12°, cl., \$1.90 net.

Bibliography.

Chapman, F. E., and Whiting, C. E., comps. and eds. The Apollo song book for male voices. Bost., Ginn, [1910.] c. 7+264 p. O. cl., \$1.

First editor is director of music in the public schools, Cambridge, Mass.; second was formerly teacher of music in the public schools, Boston. The book is intended for boys' schools, colleges, and glee clubs.

Chartres, Anita Vivanti, [Mrs. J: Chartres.] The devourers. N. Y., Putnam, 1910. c. 328 p. D. cl., \$1.25.

An intimate soul study of an exceedingly gifted woman, whose artistic and intellectual aspirations are little by little curtailed in the interest of the child committed to her care—a child that, itself grown to womanhood and well on the way to fulfilling its artistic mission, is similarly confronted with the duties of maternity, to which the aspirations of the individual must yield. Thus Nancy was a genius, and Nancy's daughter turned out a genius, and genius is a vampire that consciously, selfishly, or unselfishly, drains the life-blood of those with whom it has to do. The story is laid in England and on the Continent.

Clark, Jean Wilde, ed. Weddings and wedding anniversaries; a book of good form in the conduct of marriage ceremonies; with added chapters about the various anniversaries. N. Y., Butterick Pub. Co., 1910. c. 6+127 p. 8°, 25 c.

Conway, Sir W: Martin. The Alps; with 23 il. from photographs by L. Edna Walter. N. Y., Macmillan, 1910. 14+269 p. 8°, (Color books.) cl., \$1.50 net.

Cotes, Mrs. Sara Jeannette Duncan, [Mrs. Everard Cotes.] The burnt offering. N. Y., John Lane, 1910. 320 p. D. cl., \$1.50.

This, like the author's "Set in authority," is a tale of India. Vulcan Mills and his daughter Joan, both with Socialist theories, go out to India, where they incite the discontented educated natives to rebel against the home government. Two men, one a Bengali, the other an English official, fall in love with Joan and she accepts the native. The climax of the tale is a bomb throwing when both men lose their lives, and Joan and her father return to England without ever realizing either cause or effect in the events they witnessed.

Couts, C: Orie. Cleft grafting. [Newcomers-town, O., C: O. Coutts,] 1910. c. 48 p. pls. 16°, 50 c.

Creswick, Paul. Honesty's garden. N. Y., Putnam, 1910. 351 p. D. cl., \$1.25.

Honesty is a charming girl who cultivates many roses in her garden next to that of an old-young booklover. Money losses make it necessary for her to leave her garden and go to London to try to earn her living. Her next-door neighbor tries to help in various ways, even to marrying her to a young Scotchman, before he discovers that there is only one way he can serve her, and that means his happiness, too, a fact that has been patent to all their friends for some time.

Davis, J. B., and Merrick, H. B. Direction of a line. Ann Arbor, Mich., G: Wahr, 1910. c. 47 p. figs. fold. charts in envelope, D. cl., 75 c.

Explanations and directions for the taking of nautical observations.

Dimock, Rev. Nathaniel. Our one Priest on high; or, the present sacerdotal function of Christ in Heaven; what it is not and what it is. Memorial ed.; with an introd. note by Rt. Rev. H. C. G. Moule. N. Y., Longmans, Green, 1910. 88 p. D. cl., 50 c. net.

The present volume may be regarded as a supplement to the author's pamphlet, "The Christian doctrine of sacerdotium." The two texts in Hebrews which are alleged as supporting the "sacrificing office of Christ in the heavens" form the basis of the book, the author holding that "the true view of the grand reality of the Saviour's glorious exaltation, as Mediator of the New Covenant, and High Priest over the house of God, because of the grand reality of His perfect sacrifice offered on the cross and accepted in the heavens, seems too utterly destructive of all conceptions of sacrificial oblation at the right hand of God."—Introduction.

Dock, Lavinia L. Hygiene and morality; a manual for nurses and others; giving an outline of the medical, social, and legal aspects of the venereal diseases. N. Y., Putnam, 1910. c. 5+200 p. D. cl., \$1.25.

Miss Dock is a graduate of Bellevue Hospital Training School, secretary of the International Council of Nurses, and author of "A text-book of materia medica for nurses" and "History of nursing." A sane, clear treatment of the social evil, with a demand for its suppression, not its regulation. Bibliographies.

Dodd, Marg. Eliot. Chemistry of the household. Chic., Amer. School of Home Economics, 1910. c. 4+169 p. il. pls. 12°, \$1.25.

Bibliography (2 p.).

Eastman, Crystal. Work-accidents and the law. N. Y. Charities Publication Committee, 1910. c. 16+345 p. pls. diagrs., O. (Russell Sage foundation pubs.; Pittsburgh Survey; findings in 6 v.; ed. by P. U. Kellogg.) cl., \$1.50.

This is the second volume of the Pittsburgh Survey's findings, the first being Elizabeth Beardsley Butler's "Women and the trades." For notice see "Weekly Record," P. W., Dec. 25, '09, [1910.] The United States is behind other countries in what has been called the "law of the killed and injured," and the time has come when our industrial workers should reap the benefit of European enlightenment on this subject adapted to American conditions. "Toward the understanding of these conditions of the common causes of accidents, and their consequences in the actual household experience of working people, this book is contributed." Miss Eastman made a systematic investigation during a representative period in a representative American district.

Eccles, Fs. Yvon. A century of French poets; being a selection illustrating the history of French poetry during the last hundred years; with an introd., biographical and critical notices of the writers represented; a summary of the rules of French versification and a commentary. N. Y., Dutton, 1910. 16+399 p. 8°, cl., \$3 net.

Ehrlich, Paul, M.D. Studies in immunity; collected and tr. by Dr. C: F. Bolduan. N. Y., Wiley, 1910. c. 11+712 p. 8°, cl., \$6.

Ellis, W: T. Men and missions; with a foreword by J: B. Sleman, jr., and with a statistical and historical appendix comp. by Abigail J. Davies. Phil., Sunday School Times Co., 1909, [1910.] c. 313 p. D. cl., 60 c. net.

As a secular journalist, Mr. Ellis recently spent a year travelling around the world investigating the missionary enterprise, both as a principle and in practical operation. His tour convinced him that there is a vast amount of work which men can accomplish, without being missionaries. The demonstration of what Christianity really means in all dealings, commercial or otherwise, with so-called heathen peoples would prove an immense help in the missionary field. Appendixes on methods how to interest men, publicity plans, famous missionaries, statistics. Index.

Emerson, H: Pendexter, and Bender, Ida C. English spoken and written. Bk. 2, Lessons in language and composition; Bk. 3, Practical lessons in English grammar and composition. N. Y., Macmillan, [1910.] c. 8+273; 16+380 p. il. 12°, bk. 2, 50 c. net; bk. 3, 60 c. net.

Bk. 2, formerly published under series title "Words spoken and written."

Erwood, W: Jos. The rational life; being a book of essays on vital themes. Baltimore, Md., Will J. Erwood Co., [1910.] c. 4+182 p. por. 12°, \$1.

Ewing, Mrs. Juliana Horatio Gatty. The brownies, and other tales; il. by Alice B. Woodward. N. Y., Macmillan, 1910. 10+176 p. il. 12°, (Macmillan's queen's treasure ser.) cl., \$1.

Felton, R. Forester. British floral decoration. N. Y., Macmillan, 1910. 24+204 p. pls. (partly col.) 8°, (Color books, miscellaneous.) \$2.50 net.

Frazer, Ja. G: Totemism and exogamy; a treatise on certain early forms of superstition and society. In 4 v. N. Y., Macmillan, 1910. 20+580; 20+640; 12+584; 8+380 p. 8°, cl., \$16 net.

Ganong, W: Fs. The teaching botanist: a manual of information upon botanical instruction; including outlines and directions for a synthetic general course. 2d ed. N. Y., Macmillan, 1910. c. 11+439 p. D. cl., \$1.25 net.

A new edition which has been rewritten throughout, many advances having been made in the study of botany since the book first appeared in 1899. Index. Author is professor of botany at Smith College.

Giese, W: Frederic, and Cool, C: Dean, comps. French anecdotes arranged for translation, conversation and composition. Bost., Heath, 1910. c. 138 p. S. (Heath's modern language ser.) cl., 40 c.

First compiler is associate professor, and second instructor in Romance languages, University of Wisconsin.

Gillette, Halbert Powers. Handbook of cost data. 2d ed. Chic., Myron C. Clark Pub. Co., [1910.] 1886 p. il. 16°, leath., \$5 net.

Ginzberg, Louis. The legends of the Jews; tr. from the German manuscript by Henrietta Szold. v. 2, Bible times and characters from Joseph to the Exodus. Phil., Jewish Pub. Soc. of America, 1910. c. 8+375 p. O. cl., \$2.

For notice of the complete work see "Weekly Record," P. W., June 5, 1909, [1855.]

Golding, H: A. Engineers' and machinists' handbook; a complete guide for turners, fitters, screw-cutters and all machinists. N. Y., Fenno, 1910. il. 16°, leath., \$1.50 net.

Good Roads Party from states of Arkansas, Oklahoma, Louisiana, Texas, on tour of inspection through eastern states. [N. Y., St. Louis and San Francisco Railroad Co., 71 Broadway,] 1909, [1910.] 148 p. pls. pors. D. cl.

A party of nine, representing Arkansas, Oklahoma, Louisiana and Texas, and calling themselves the Goods Roads Party, accepted the invitation of Mr. B. F. Yoakum, chairman of the executive committees of the Rock Island-Frisco lines, to make a road-inspecting tour through the eastern states. This book is a report of the trip and what was seen during it.

Grainger, Fs. E: ["Headon Hill," pseud.] The Monksglade mystery. N. Y., Fenno, [1910.] 319 p. pls. D. cl., \$1.50.

A young physician who has become well-known as an athlete but has almost failed to support himself in his profession answers an advertisement. He

is hired by "the hanging judge" of the English bench to be his immediate attendant to defend him from threatening relations of condemned criminals. Makes a plot full of adventure.

Grampp, Otto. The practical enameler; an exceptionally complete manual for self-instruction for those engaged or interested in the trade, giving the latest and most approved methods of enameling sheet-steel and cast iron ware, with useful information relating to all side lines. N. Y., D: Williams Co., 1910. \$10.

Haile, Martin. Life of Reginald Pole. N. Y., Longmans, Green, 1910. 13+554 p. pors. O. cl., \$5.25 net.

An appreciative life of the English Cardinal who was Queen Mary's cousin and adviser. Mr. Haile considers Pole one of the best and greatest men of his time. He was born at Stourton Castle, Staffordshire, Eng., March 3, 1500, and died in London, November 18, 1558, the day after Queen Mary's death. His mother and Katherine of Arragon planned for the marriage of Mary and Pole, and the people favored the match. Educated at Oxford and Padua, Reginald Pole came in contact with the best minds of his time. He was created cardinal in 1536, was legate-president of the Council of Trent, and on the death of Edward VI. returned to England as Mary's adviser and was made Archbishop of Canterbury.

Harris, Maurice H: Modern Jewish history from the Renaissance to the Russian exodus. N. Y., Bloch Pub. Co., 1910. c. 160 p. il. 8°, bds., 30 c. net. Bibliographical notes.

Harvard classics; ed. by C: W: Eliot. In 50 v. v. 24-32. N. Y., Collier, [1910.] c. il. pors. pls. facsim., 8°, subs., buckram, \$100; ¼ inor., \$195; mor., \$345.

Contents: [v. 24.] Chronicle and romance Froissart, Malory, Holinshed; [v. 25.] French and English philosophers: Descartes, Rousseau, Voltaire, Hobbes; [v. 26.] Scientific papers: physics, chemistry, astronomy, geology; [v. 27.] Cervantes Saavedra, Miguel de. The first part of the most delightful history of the most ingenious knight Don Quixote of the Mancha; tr. by T: Shelton; [v. 28.] Literary and philosophical essays: French, German and Italian; [v. 29.] Essays, English and American; [v. 30.] Continental drama: Calderon, Corneille, Racine, Molière, Lessing, Schiller; [v. 31.] Cellini, Benvenuto, Autography; tr. by J. Addington Symonds; [v. 32.] Voyages and travels, ancient and modern.

Hasse, Adelaide Rosalia. Index of economic material in the documents of the United States; Delaware, 1789-1904; prepared for the Department of Economics and Sociology of the Carnegie Institution of Washington. Wash., D. C., Carnegie Inst. of Washington, 1910. 137 p. Q. pap., \$1.50.

Hay, J: A poet in exile; early letters of J: Hay; ed. by Caroline Ticknor. Bost., Houghton Mifflin, 1910. c. 48 p. por. facsim., 8°, cl., \$5. (440 copies.)

Hays, Helen Ashe. The Antietam and its bridges; the annals of an historic stream; with 17 photogravures from photographs by J: C. Artz. N. Y., Putnam, 1910. c. 5+178 p. Q. cl., \$3.50.

From the Pennsylvania line through Washington County, Maryland, to the Potomac River runs the Antietam, a river which has been made famous by the three days' battle fought on its banks during the Civil War. It is this river which the author of "A little Maryland garden" tells of here, giving its history from the Revolution to the Civil War, and describing its beauty and that of its many picturesque stone bridges.

Healey, Horace G. The Healey system of free arm movement writing. In 10 nos. N. Y., Amer. Book Co., 1910. c. obl. D. pap., ea., 10 c.

A graded system of writing books covering the grades from 1 to 5B, arranged by the chairman, Department of Writing, High School of Commerce, New York City.

Heilbroner, L., comp. The baseball blue book; a reliable directory of all leagues and clubs and official playing schedules of leagues working under the national agreement, 1910. Fort Wayne, Ind., L: Heilbroner, 1910. c. O. pap., \$1.

Gives text of the National Agreement, Rules of the National Commission pertaining to purchase and sale of minor league players, major and minor league drafting rules, National Association contract and option rules, etc., and a list of officers and members of the Baseball Writers' Association of America.

Hemey, W: F. Songs of the times. N. Y., Cochrane Pub. Co., 1910. c. 11-134 p. 12°, \$1.

Hicks, I: Perry. Hicks' builders' guide; comprising an easy, practical system of estimating material and labor for carpenters, contractors and builders; a comprehensive guide to those engaged in the various branches of the building trades; rev. and enl. N. Y., D: Williams Co., 1910. 166 p. il. cl., \$1.

Hodgson, F: T. Estimating frame and brick houses, barns, stables, factories, and out-buildings. 8th ed., enl., amended and modernized; a treatise on all the items and elements of cost in construction, beginning at the foundation of the building and progressing to the finished structure; special attention given to estimating by cubing, by the square of floors or walls, and by the process of comparison; there is a detailed estimate of a five-thousand-dollar house and additions, all figured out and measured by the quickest and simplest method. N. Y., D: Williams Co., 1910. 253 p. il. cl., \$1.

Holt, Harrison Jewell. The calendared isles: a romance of Casco Bay. Bost., Badger, 1910. c. 296 p. D. cl., \$1.50.

Malcolm Carden is sent by his paper to write a series of articles on the islands of Casco Bay. There he meets a charming girl, to whom he loses his heart, only to learn that she is already married and that her husband is a brute. Unhappiness and misunderstanding shadow the young people's lives, but at last the clouds are cleared away, largely through the agency of a quaint little girl, Keturah, who lives on one of the islands.

Home, Gordon Cochrane. The motor routes of France; with 16 full-page il. in color, 16 in black and white and 60 maps and plans. N. Y., Macmillan, 1910. 14+444 p. 8°, (Color books, miscellaneous.) cl., \$2 net; leath., \$2.25 net.

Hornbold, Bp. J: Jos. The commandments and sacraments explained in 52 discourses. N. Y., Christian Press Assoc. Pub. Co., 1910. c. 4+560 p. 12°, 75 c.

Houtz, Rev. Alfr. The Master's call to service. Phil., Reformed Church Publication Bd., 1910. c. 135 p. 12°, 60 c.

Jenks, Jeremiah Whipple. Governmental action for social welfare. N. Y., Macmillan, 1910. c. 16+226 p. D. (American social progress ser.; ed. by S: McCune Lindsay.) cl., \$1 net.

The lectures which make up this book were given as the Kennedy Lectures for 1907-08 in the School of Philanthropy, New York, by the professor of economics and politics, Cornell University. The unpractical nature of some of the proposals for legislation made by reformers and the lack of literature on the nature of the problems which actually face reformers who attempt to secure government assistance make this discussion of the various departments of government, their powers, their weaknesses, their practices, of great interest and usefulness.

Lansing, Marion Florence, comp. Page, esquire and knight; a book of chivalry; il. by C: Copeland. Bost., Ginn, [1910.] c. 7+182 p. S. (Open road lib. of juvenile literature.) cl., 35 c.

Tales of chivalry from the founding of King Arthur's Round Table to the death of Chevalier Bayard.

Laws (The) of the King; or, talks on the Commandments, by a religious of the Society of the Holy Child Jesus. N. Y., Benziger, 1910. c. 199 p. pls. S. cl., 60 c.

Simple instruction on the Ten Commandments written for Catholic children.

Leblanc, Maurice. Arsene Lupin, gentleman burglar. N. Y., J. S. Ogilvie, 1910. 256 p. 12°, cl., 75 c.; pap., 25 c.

Leblanc, Maurice. Arsene Lupin versus Sherlock Holmes. N. Y., J. S. Ogilvie, 1910. 282 p. 12°, cl., 75 c.; pap., 25 c.

Liefeld, E. Theophilus. Faces and phases of German life. N. Y., Fowler & Wells Co., [18 E. 22d St.] 1910. 315 p. cl., \$1.50 net.

McGavick, Rev. Ja. E: Catholic belief and practice. 4th ed., rev. and enl. Milwaukee, Wis., Wiltzius, 1910. c. 204 p. 16°, 25 c.

Macleod, Fiona, [pseud. for W: Sharp.] Writings of "Fiona Macleod"; ed. by Mrs. W: Sharp. Uniform ed. v. 1, Pharais and The mountain lovers; v. 2, The dominion of dreams [and] Under the dark star; v. 3, The sin-eater, The washer of the ford, and other legendary moralities. N. Y., Duffield, 1910. c. '95, '96. fronts. D. cl., ea., \$1.50 net.

This uniform edition of the works of William Sharp includes what he wrote under his pseudonym, "Fiona Macleod," between the years 1894 and 1905, and is issued under the editorship of Mrs. Sharp, according to the wishes and instructions left with her.

Marrs, S. M. N. Educational miscellany. Terrell, Tex., [S. M. N. Marrs, 401 Johnson St.] 1909, [1910.] 41 p. O. pap., 15 c.

Contents: 1, The relation of the state normal school to public education; 2, The county as a unit of school administration; 3, Some phases of public education in Texas as compared with other states; 4, Morals.

Martineau, G: Sugar, cane and beet; an object lesson. N. Y., Pitman, [1910.] 9+149 p. il. chart, diagr., D. (Pitman's common commodities of commerce.) cl., 75 c.

A popular account of sugar from the industrial and commercial standpoints. Books of reference are given in the preface. The author was secretary to the British Sugar Refiners' Committee, 1872-92, assistant British delegate on the Permanent International Sugar Commission at Brussels, 1903-5.

Maupassant, Guy de. The Miromesnil edition of Guy de Maupassant; tr. by A. E. Henderson, B.A., Mme. Quesada, and others; il. by A. B. Wenzell, Albert Sterner, Albert Lynch, H: Hutt. 8 v. [N. Y.,] Collier, [1910.] c. fronts. 8°, \$5.60.

Contents: [v. 1.] Une vie, St. Anthony, Minuet, and other stories; [v. 2.] Pierre and Jean, Father and son, Boitelle, and other stories; [v. 3.] Belami, One evening, An artifice, and other stories; [v. 4.] Our hearts, The lancer's wife, The prisoners, and other stories; [v. 5.] Sur l'eau, La vic errante, A family affair, and other stories; [v. 6.] The Horla, Miss Harriet, Little Louise Roque, and other stories; [v. 7.] Strong as death, Useless beauty, Who knows?, and other stories; [v. 8.] Monsieur Parent, Queen Hortense, Fascination, and other stories.

Melliar, Rev. A. Foster. The book of the rose; ed. by Rev. F. Page-Roberts and Herbert E. Molyneux. 4th ed. N. Y., Macmillan, 1910. 38+360 p. il. 12°, \$2 net.

Metcalf, Rob. C., and Rafter, Augustine L. A language series. Bk. I. N. Y., Amer. Bk. Co., [1910.] c. 256 p. D. cl., 40 c.

This series is for use before the fourth year of school, when the child begins a systematic study of the English language. It is designed to train the pupil in habits of observation and the power to express the results of this observation. First author was formerly supervisor of schools, and second is assistant superintendent of schools, Boston.

Miller, Barnette. Leigh Hunt's relations with Byron, Shelley and Keats. N. Y., Macmillan, 1910. 12+172 p. 8°, (Columbia Univ. studies in English.) cl., \$1.25 net. Bibliography.

Modern mantels; a handbook for the discriminating buyer of wooden mantels for the home; with half-tone and color il. of a complete line. Knoxville, Tenn., Knoxville Furniture Co., [1910.] c. 5-127 p. il. pls. (partly col.) O. pap., \$1.

A book showing in its illustrations many designs for mantels which are made by the Knoxville Furniture Co.

Mulliken, S: Parsons. A method for the identification of pure organic compounds, by a systematic analytical procedure based on physical properties and chemical reactions. v. 3. Identification of the commercial dyestuffs. N. Y., Wiley, 1910. c. 6+274 p. 8°, cl., \$5.

Nelson, Burt E. Introduction to the analysis of drugs and medicines; an elementary handbook for the beginner. N. Y., Wiley, 1910. 9+384 p. 12°, \$3 net.

Nicholson, Ja. W. Elementary arithmetic. N. Y., Amer. Bk. Co., [1910.] c. 236 p. D. cl., 34 c.

Author is professor of mathematics in the Louisiana State University.

Palgrave, Rob. Harry Inglis, ed. Dictionary of political economy. 3 v. [Rev. ed.] N. Y., Macmillan, 1910. 16+800; 20+848; 24+884 p. 8°, \$15.

Perkins, Agnes F., ed. Vocations for the trained woman; opportunities other than teaching; introductory papers. Bost., Women's Educational and Industrial Union, [1910.] c. 9+296 p. O. cl., \$1.20; pap., 60 c.

Articles by men and women in New York and Massachusetts who have experience of different

fields other than teaching open to women. Many women unfitted for teaching drift into it because it is the vocation with which they are most familiar, the results being injurious to both teacher and pupil. Civil service, social service, scientific work, domestic science and arts, agriculture, business, clerical and secretarial work, literary work, art and special forms of teaching are the fields covered. Index.

Perry, Arth. Cecil, jr. Problems of the elementary school. N. Y., Appleton, 1910. c. 7+224 p. D. cl., \$1.25 net.

A study of the elementary school considered in two parts, the first concerned with the broad general problems dependent upon its organic structure, the second with specific phases of its work as planned and directed by the principal of a school or the teacher of a class. By the author of "The management of a city school." Index.

Petit, Robert. How to build an aeroplane; tr. from the French by T. O'B. Hubbard and J. H. Lederboer; with 93 illustrations. N. Y., Van Nostrand, 1910. 13+122 p. 8°, cl., \$1.50 net.

Pratt, Helen Marshall. The cathedral churches of England; their architecture, history and antiquities; with bibliography, itinerary and glossary; a practical handbook for students and travellers. N. Y., Duffield, 1910. c. 14+15-593 p. pls. D. cl., \$2.50 net.

Miss Pratt has given eight years to the study of the thirty-two cathedrals of England, nearly one-half of the time being given to the study of the buildings themselves and the remainder to their history and archæology at the British Museum, the Bodleian and the Bibliothèque Nationale. The book gives, as far as possible, "some hint of the meaning of each [cathedral], the reason why it was built at a particular time, and also something of the personality of those bishops, abbots, deans, priors, canons, royalties, and noble men and women whose names are inseparably connected with the fabric, or who sleep within its walls."—Preface. Glossary. Bibliography (9 p.).

Prentys, Elsie Pym. French for daily use; comprising conversations for journeying and for daily use in town and country; French rev. by L: Ferdinand Richard. N. Y., W: R. Jenkins Co., [1910.] c. 6+160 p. T. cl., 50 c.

Collection of the most obviously necessary sentences for the traveller in France, together with the coinage, its American and British equivalent, a list of places usually visited, as the theatre, shops, tailors' picture galleries, cathedrals, etc., the chief dishes encountered at the table d'hôte, and the prices likely to be asked at hotels and boarding houses.

Rathbone, R. L. B. Simple jewelry; a practical handbook dealing with certain elementary methods of design and construction; written for the use of craftsmen, designers, students and teachers. N. Y., Van Nostrand, 1910. 14+280 p. il. 12°, cl., \$2 net.

Reynolds, J. B. Ireland; elementary rational geography, Ireland and Great Britain in outline. N. Y., Macmillan, 1910. 8+208 p. maps, diagrs., 12°, cl., 50 c. net.

Roe, Clifford G. Panders and their white slaves. N. Y. and Chic., Revell, [1910.] c. 224 p. D. cl., \$1 net.

By the former assistant state's attorney at Chicago. A true account of actual conditions from an inside knowledge of the twentieth century traffic in young girls. The author gathered his data during several years of special prosecution. Over sixty cases are mentioned, most of them resulting in convictions.

Roosevelt, Thdr. Biological analogies in history; delivered before the University of Oxford, June 7th, 1910. N. Y., Oxford Univ. Press, 1910. c. 43 p. O. (Romanes lecture, 1910.) cl., 60 c.; pap., 35 c.

This is the Romanes lecture of 1910, delivered by Mr. Roosevelt on June 7 in the Sheldonian Theatre, Oxford. It shows the analogy between the facts of the biological history of the earth, the migration and changes in the faunal life through the ages, and the changes in races and nations throughout the world's history.

Saintsbury, G: E: Bateman. A history of English prosody from the 12th century. In 3 v. v. 3, From Blake to Swinburne. N. Y., Macmillan, 1910. 16+564 p. 8°, cl., \$3.75 net.

Price of v. 1, published 1906, raised from \$2.50 net to \$3.75 net.

Sandys, J: Edn. Orationes et epistolae Cantabrigienses, (1876-1909.) N. Y., Macmillan, 1910. 16+292 p. 4°, cl., \$3 net.

Seaton, G: A. Selected shop problems. Peoria, Ill., Manual Arts Press, [1910.] c. 15 p. il. pls. O. (Manual training reprints; ed. by C: A. Bennett.) pap., 20 c.

Sixteen problems in woodworking selected from the Shop Problems Department of the *Manual Training Magazine*. Most of the problems have all the working dimensions given, but a few need either to have some dimensions supplied by the pupil or should be modified by him.

Simpson, Katherine D., comp. From a book lover's notes. Peoria, Ill., Cloister Press, [1910.] c. 76 p. O. pap., 60 c., boxed.

A collection of quotations in prose and verse on many subjects.

Spon's workshop receipts for manufacturers, mechanics, and others. New ed., rev. and partly rewritten; all the subjects being classified under one alphabet. v. 2, Dyes to Japanning; v. 3, Jointing pipes to Pumps. N. Y., Spon & Chamberlain, 1910. 550; 534 p. il. 12°, ea., cl., \$1.50 net.

Stockbridge, Horace E: Land teaching; a handbook of soils, plants, gardens and grounds, for teachers and cultivators. Atlanta, Ga., Southern Ruralist Co., 1910. c. 7+130 p. il. 8°, \$1.

Tenney, E: Payson. Contrasts in social progress. Rev. ed. [Nahant, Mass., E: P. Tenney, Box R,] 1910. 16+421 p. O. cl., 85 c.

This is a revised edition of a work that appeared some years ago, but is now issued with additional material. The author was formerly president of Colorado College, Colorado Springs. The book is a comparison of the social life developed under the five great religions or philosophies—Buddhism, Confucianism, Mohammedanism, Judaism and Christianity. Through correspondence two hundred specialists have aided the author, and ten eminent American scholars, or social students in foreign fields, have revised the text. References in footnotes. Bibliography (7 p.). Index.

Thorndike, E: Lee. Handwriting. [N. Y., Columbia Univ. Press, 1910.] 93 p. facsim., 8°, (Teachers' College Record.) pap., 30 c.

Vernon, Max. In and out of Florence; a new introd. to a well-known city; with many il. from drawings by Maud Lanktree. N. Y., Holt, 1910. c. 13+370 p. O. cl., \$2.50 net, boxed.

A reliable though delightfully informal book, liable to prove as attractive to fireside travellers as

those who actually cross the sea. Besides covering Florence's art treasures and the sights of interest to tourists, including the delightful excursions to Vallambrosa, and over the Consuma Pass, the Casentino, Prato, Pistoja, Luca and Pisa, the author treats of such practical matters as house-hunting, servants, shopping, etc., the author and his wife having taken a villa and kept house for months in the city. Bibliography (12 p.).

Wahlert, Edna. Completion of Coleridge's Christabel; a story of destiny and peace. N. Y., Cochrane Pub. Co., 1909, [1910.] c. 52 p. 12°, 50 c.

Weed, Arth. J. Practical dynamo building for amateurs; a practical treatise showing the construction and winding of an experimental fifty Watt dynamo; il. by 64 original engravings showing the actual work in progress. N. Y., Henley, 1910. c. 6+83 p. il. 12°, \$1.

Weigall, Arth. E: Pearse. A guide to the antiquities of upper Egypt, from Abydos to the Sudan frontier. N. Y., Macmillan, 1910. 25+594 p. maps, plans, 12°, cl., \$2.50 net.

Whitaker, Olivar Barr. Dick Haley; a thrilling story of poverty, heroism and suffering, dealing with real life and a vital problem of our public schools. Dayton, O., Christian Pub. Assoc., 1910. c. 230 p. pls. 16°, 80 c.

Wiley, Belle. Mother Goose primer. N. Y., C: E. Merrill Co., 1910. c. 128 p. col. il. sq. 12°, cl., 32 c.

Wilkinson, W: Cleaver. The good of life and other little essays; de omnibus rebus et quibusdam aliis. N. Y., Funk & Wagnalls, 1910. c. 392 p. D. cl., \$1.25 net.

The author of "Foreign classics in English," "Some new literary values," etc., now gives us a volume of fifty-six essays which treat in happy strain of everything in the world and a few things besides. Some of the titles are: A good word for book agents; Hating as a duty; From the Genesee to the Hudson in a buggy; The favoritism of history; The feud with food; The folly of being sorry; A story of confession; Canal horses; A feat in forgetting; The true story of a famous speech; A glimpse of the Yosemite.

Willson, Rob. Wheeler, M.D. Medical men in the time of Christ. Phil., Sunday School Times Co., 1910. c. 157 p. il. D. cl., 60 c. net.

Sketches the standing and knowledge of medicine from earliest times through the Greek Asklepien temples to Luke, and shows how he as a physician must undoubtedly have investigated the healings of Christ and how he pronounced them and the reports of His life and works true. (Bibliography (1 p.).

Wyllarde, Dolf. Tropical tales and others. N. Y., John Lane, 1910. 330 p. D. cl., \$1.50.

These tales may not all be placed physically in the tropics, but are always mentally so, says the author, who is known in this country through his "Mafoota," "Rose-white youth," etc. *Contents:* "Plaisir d'amour"; The man by moonlight; The testimony of a cigarette; In quarantine; "The plaything of the gods"; "Outside her wedding ring"; The weariest river; The wicked room; Into the fog; "Man is fire"; Ellison's Christmas dinner; The hunting of Chilton Sahib; The squirrel and the corpse, etc.

Young, Melvin. The science and art of writing life insurance; standard course. N. Y., New York Insurance School, [1910.] c. 153 p. por. 8°, \$2.

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The editor is not responsible for the views expressed in contributed articles or communications.

Publishers should send books promptly for weekly record and descriptive annotation, if possible in advance of publication. The Record of the PUBLISHERS' WEEKLY is the material of the "American Catalog," and so forms the basis of trade bibliography in the United States.

"I hold every man a debtor to his profession, from the which, as men do of course seek to receive countenance and profit, so ought they of duty to endeavor themselves by way of amends to be a help and an ornament thereunto."—LORD BACON.

PAPER TESTING FOR PUBLISHERS.

THE *Evening Post* recently reprinted some amusing vituperation of itself from a contemporary of a hundred years ago, a copy of which is still extant. A hundred years hence it is unlikely that any of our newspapers of to-day can be found; this is giving the public libraries much concern. Some inquiries have been made from the Brooklyn Public Library to some of the leading newspapers as to the printing of a special library edition on durable paper—but without much encouragement in response. The question of the durability of paper is an important one to book publishers, who are in a sense morally bound to use a paper which gives promise of durability. We cannot pattern the old Grecian scholastikos who, hearing that a raven lived to be a hundred years old, bought one to see if it was true—and the durability of papers can only be prophesied by certain kinds of tests as to material and present strength.

The testing of materials for manufacturing processes has of recent years been made an important feature in many industries. Coal is nowadays purchased by many manufacturing corporations on the basis of the number of thermal units contained in the ton, as tested month by month by concerns which make scientific testing a regular business. Paper has been tested for some time past by the Bureau of Standards at Washington for the Government, and, to some extent, for private consumers; but that official bureau is endeavoring to rid itself of private testing work, and such concerns as the Electrical Testing Laboratories, originally organized by the Edison companies for life tests of elec-

tric lamps, and the Little Laboratory in Boston, which has hitherto specialized rather in tests of paper materials, are taking over the work of testing paper. We print elsewhere a statement of the former's equipment and methods, because of the interest of such tests to publishers, as well as reports of tests made by it for this office. A report of the American Chemical Society in connection with the purchase of paper for its periodical also throws valuable light on the subject.

Among the several tests, there are three of prime importance, covering fibre and other material, folding and tensile strength. To ensure durability, a paper should include at least a proportion of rag fibre; the more the better. The length of fibre has much to do with durability, as the longer fibre better resists wear and tear. Sizing, preferably animal sizing, adds somewhat to the present strength of paper, but may not be an element of durability, while clay filling is a present and permanent element of weakness. The refolding of paper on itself, until it is abraded, is the test of the most importance next to that of material. Tensile strength shown by pulling or bursting strain or perhaps better by tearing strain at the edge, is the third test of importance. We think it will more and more become the wise practice of publishers to submit papers to scientific test before purchase and use.

It has already been shown in the valuable experiments of Mr. Chivers that the durability of books, especially for continuous library circulation, depends much upon the direction of the fibre in relation to the binding fold; and this and the results of similar investigation may well be borne in mind by the publisher. The primary tests of paper, for its material constituents and physical characteristics, are, however, of even greater importance.

The laboratories are now prepared to make complete tests as described, or to pass on the comparative merits of paper samples submitted from some special standpoint. For instance, in the selection of a thin paper to be printed on both sides, the questions of opacity and penetration become vital. In selecting papers for printing folded maps or illustrations folded into a book the question of folding durability becomes paramount. The question of selecting a durable paper for a series of reference books is too important to be trusted to hand or eye gauging, which to all intents and purposes is practically guesswork.

THE SEARCH FOR PAPER MATERIALS.

THE continually rising price of white paper is stimulating anew the search for new sources of supply, new fibres capable of economical working over into paper form. The recent action of the Canadian Province of Quebec forbidding pulp exportation only emphasizes the demand by calling attention to the rapidly diminishing American spruce stumpage.

The question of paper pulp supply is undoubtedly one of our most serious economic problems. The question of the wood pulp supply has serious ramifications of its own, including ultimately the whole field of forest conservation and hence of water and soil conservation, for the wood pulp plants are the most important single factor in deforestation and stream pollution.

The total production of paper in the world last year was 5,000,000 tons. Of that amount the United States produced 1,900,000 tons. Germany ranked second in the list of nations in this respect, producing 778,000 tons. The demand for paper increases, almost in geometrical proportion, with the advance of civilization and the increase of population. With the principal present source of supply even more rapidly diminishing, the necessity for finding substitutes for wood pulp is so apparent that in every country on earth experiments are being made to determine the utility of other natural products.

In his report for 1908, Mr. Arthur D. Little, the official chemist of the American Paper and Pulp Association, discussed the question of possible paper materials at some length:

MR. LITTLE'S REPORT, 1908.

THE most significant development of the year in paper making has been the serious and general inquiry all over the world for new sources of paper stock. Wood is undoubtedly destined to maintain a position as one of the chief sources of supply for an indefinite number of years, and no possible substitute for ground wood is even in sight. There are, nevertheless, for those who will read them, plenty of signs that we are on the eve of a readjustment in paper making methods. For a considerable number of years the makers of many sorts of paper have found themselves in a position where it was wood fibre or nothing else as their raw material. This general use of wood fibre as the only available basis for many branches of the industry has made for a greatly increased production, but has not always made for improvement in the quality of product. To the growing scarcity of pulp wood, the continually rising price and longer haul with which paper makers using this material are now contending, will, in a few years, be added the competition of new and better stocks which even now can be produced more cheaply than any bleached wood fibre. The time is rapidly approaching when we shall see upon the market many new paper stocks as bleached and unbleached pulp and half-stuffs, and these will be as readily available for immediate use as bleached sulphite is to-day. This means,

of course, a gradual displacement of wood fibre from its present position of supremacy. It means also a far wider range in the quality and characteristics of available raw materials, as a result of which variety will come a broader scope for the exercise of a critical judgment and a greater skill on the part of the paper maker in the selection and manipulation of his materials. This condition is bound to react to the advantage of the industry generally, and especially to the advantage of the smaller mills in the hands of expert and progressive manufacturers. There should follow a decided rise in the standard of quality, particularly in bag and wrapping papers and in those papers which may be expected to replace the cheaper grades of book, wood writing and envelope as now manufactured.

Flax Straw, Now Wasted, a Fine Paper Fibre.

Let us consider first the material available in our own country and now wasted with our characteristic national improvidence. The first in importance of these is undoubtedly the waste flax straw of our Northwest. The total area grown to flax for seed runs as high in some years as 3,700,000 acres, which means roughly a strip a mile wide and over 5700 miles long. A ton and a half of straw to the acre is said to be a moderate yield, upon which basis we have 5,000,000 tons of straw a year. This straw contains more than 20 per cent. of linen fibre, so that, disregarding the inconsiderable amount of the fibre which is worked into tow, binder twine, and a few other similar coarse uses, there is here available more than 1,000,000 tons a year of the finest paper stock, equally suitable for the highest grades of paper as well as for bag and wrapping papers of a quality not now approached. It would be hard to find another country in which such a waste would be permitted.

Flax is pre-eminently a crop for new lands, and is often the first crop sowed after such lands are turned over. Great crops of flax for seed are therefore naturally raised in Canada, particularly in Manitoba and the Canadian Northwest. Up to this time little or nothing has been done in the way of utilizing the fibre, although the Canadian flax should prove more valuable than our own by reason of the greater care taken in harvesting, the flax being cut or pulled and kept straight in sheaves while the seed is being separated.

Cotton Seed Fibre.

Within the last year at least three machines have been perfected for separating the short fibre which adheres to our Southern cotton seed after the cotton has been ginned. An average cotton crop may be counted on to yield at least 600,000 tons of this short fibre, which now goes into cattle feed, to the detriment of the latter. One meets occasionally with paper makers who have tried the fibre, but who almost invariably condemn it as unworthy of serious consideration. Within the last few weeks a writer in an English journal stated with much positiveness that this cotton hull fibre was "only suitable for browns and wrappings." The real fact is that this fibre

is easily reduced to a pure white stock wholly free from any sign of hull, and a failure to secure good results from this neglected fibre as from a good grade of cotton rags is a reflection upon the skill of the man who tries to handle it rather than upon the quality of the fibre itself.

Cotton and Corn Stalks.

In my report of last year I referred to the fact that on the average 22,750,000 tons of cotton stalks are each year burned or plowed under, or otherwise wasted. These stalks have a woody structure which lends itself readily to treatment by the sulphite process, yielding a fair proportion of fibre well suited for the production of paper of the lower grades. It is, of course, not feasible to attempt the removal of the bark, but this is so broken up and distributed through the sheet as to be unobjectionable in papers for a wide variety of use. There are, however, undoubted difficulties in the way of the preliminary handling, transport and storage of the material by reason of its bulk.

Somewhat the same difficulties are encountered in any large scale attempt to utilize the first class fibre which in almost unlimited amount has been shown to exist in the outer shell of the corn stalk.

Hemp on the Colorado River.

The exceptionally high tides which occur in the Gulf of California during the full moon of May each year, acting together with the melting snows from the mountains, cause the Colorado River to overflow its banks along its lower reaches, which are thus built up of rich, alluvial soil. The climate is almost tropical, the temperature often reaching 135 degrees in the sun. Great stretches of this country are covered with wild hemp, which, under these favoring conditions, grows luxuriantly. Many tracts are over 100,000 acres in extent. No data is available as to the yield of fibre, but hemp is known to grow to a height of 15 feet in eighty days, and to yield 1500 to 2000 pounds of actual fibre per acre. I need not tell you that this fibre is of the very highest grade for any of the purposes of paper making.

Marsh Grass.

The so-called marsh hay, which is said to closely resemble esparto in structure and the paper making quality of its fibre, grows wild in great abundance over large areas in Canada, while the American wild rice, *Zizana aquatica*, also grows in such profusion that 100,000 tons a year are available on the shores of the Canadian lakes alone. Paper making tests made in England rank this fibre also with esparto.

Bamboo a Very Valuable Source of Paper Fibre.

Especially noteworthy in the developments of the year is the serious and general revival of interest in bamboo as a source of paper stock. Its superlative value for this purpose

was urged, you will remember, by Routledge in 1875 after his introduction of esparto into England. You may also remember that my report of last year refers to the very favorable conclusions as to bamboo reached by R. W. Sindall in his report to the British Government on available sources of supply of paper stock in the British Colonies. These conclusions are now amply confirmed by Raitt, who has recently published the results of numerous experiments of his own on the mill scale in Burmah, Bengal, Malabar and Straits Settlements, and by Richmond in the laboratory of the Bureau of Science at Manila. Raitt finds in bamboo a really inexhaustible raw material. He recommends the establishment of bamboo plantations so arranged that one-third of the whole plantation shall be cut over every year. This will secure absolute permanence of growth, and, in fact, such systematic cropping will increase production. Raitt finds the yields of bamboo to be 11 tons per acre where the growth was poor, 18 tons with moderate growth, and 44 tons per acre with luxurious growth. The best yields of fibre, 44 per cent., and the best results in treatment were secured with three year old shoots. The internodal pieces alone were digested, the rejected nodes amounting to 8 per cent. of the total weight. The stems were cooked at 60 pounds pressure for ten hours, with 30 pounds of 76 per cent. caustic per hundredweight of dry bamboo. The fibre bleached to good color, with 20 pounds of bleach per hundredweight.

Raitt further finds that the stems were easily reduced by the sulphite process, giving a yield of 51 per cent. and bleaching to a brilliant white, with 16 pounds to the hundredweight. He estimates that in a 200 ton sulphite plant at Rangoon the cost of bamboo fibre will be \$24.30 a ton.

Richmond, whose excellent work in the Philippines deserves the highest credit, finds that it is quite unnecessary to remove the nodes prior to cooking, provided the stems are first passed through crushing rolls and afterwards, for convenience of packing in the digester, cut to 3 or 4 inch lengths. He obtains from the different varieties of bamboo yields of 40 to 43.7 per cent. of bleached fibre by the soda process. The sulphite process gives 43.5 bleached fibre, which puts bamboo on about the same basis as wood in this regard. The unbleached sulphite was nearly as white as the thoroughly bleached pulp.

The importance of these figures becomes evident when we consider that we have in bamboo a raw material directly comparable to wood in many respects, but with no bark to remove, and much more easily reduced to pulp by either the sulphite or soda process. Bamboo requires a weaker liquor and much less of it, and is reduced in less time with far less fuel consumption. A properly situated mill is assured of a regular supply, with a yield per acre every third year greater than that resulting from the cutting over of well grown spruce lands of good stand. Bamboo, in fact, has been known to grow two feet in three days in the Philippines. It is interesting to calculate from Raitt's figures

for moderate growth that only about sixteen square miles is required to maintain indefinitely the supply of bamboo for a 100 ton mill.

Cogon Grass and Manila Waste.

Two other raw materials for paper stock among those studied by Richmond demand special mention. These are Cogon grass and Abacá or manila waste. Cogon grass grows from 2 to 4 feet high in even stands on open lands, foot hills, and mountains in the Philippines. In content of cellulose, as well as in general composition, Cogon closely resembles esparto and yields with equal ease to treatment. It gives a very fine, clean paper, stronger and with more snap than esparto. It does not, however, bulk as well, but for many uses should prove even more valuable.

The hand cleaning of manila fibres involves the production of much waste, while all of the several fibre stripping machines now on trial in the Philippines produce waste in much larger proportion. For every ton of merchantable manila fibre produced in the Philippines, more than a ton of fibrous waste is made in the process of hand stripping, while nearly four times as much waste is now lost by the methods of machine stripping.

This Abacá waste constitutes one of the most intrinsically valuable raw materials anywhere available for paper makers, and will not be treated as a waste much longer. Richmond and others have shown conclusively that the Abacá waste is very easily reduced by alkaline treatments, and further that it bleaches readily and is suitable for paper of the very highest grades. The more general introduction of fibre cleaning machines is certain to extend the manila hemp industry and to greatly increase the already large quantity of this waste available for treatment on the spot or for export. The yields of fibre on the hand stripped waste are about 42 per cent., and on the machine stripped about one-quarter less.

It is obvious that the fibrous raw materials which we have been considering require somewhat different treatments to meet their individual requirements, and that they are in most instances too bulky for profitable transportation. The natural line of their development is, therefore, the manufacture of pulp and half-stuff upon the spot for trans-shipment to the mills of paper consuming countries. The methods required are for the most part simple and well adapted for introduction into small local plants.

For lack of time this report must pass by the numerous proposals made during the year for the utilization of other less promising fibres and fibrous wastes. Mention should, however, be made of Perini fibre (Canhamo *Braziliensis* Perini), recently discovered by Dr. A. V. de Perini, of Rio de Janeiro, and now attracting considerable attention. In its essential features Perini resembles jute.

In a more recent report this year to the American Paper and Pulp Association, Mr. Little reviews the progress made during the two years intervening, and summarizes the results of new investigation.

MR. LITTLE'S REPORT, 1910.

Bamboo as a Raw Material.

Two years ago I called the attention of the Association to the suitability and importance of bamboo as a source of paper stock, and referred to the initial suggestion for its utilization in this direction made thirty-five years ago by Thomas Routledge, as well as to the recent investigations of Richmond in the Philippines, Raitt in Burma, and Sindall in India.

The subject has commanded considerable further attention during the year just past, and among the several articles which have appeared with reference to it special mention should be made of the monograph by Sindall, entitled "Bamboo for Papermaking," which is printed on an excellent quality of book paper made from bamboo. There appears to be no room for doubt that bamboo is one of the most promising, if not in fact actually the most attractive of the new sources of paper stock available at this time. It has no bark, it is much easier to treat than wood on account of its capillary sap tubes, and although Raitt advises otherwise, it is not, according to Richmond, even necessary to separate the nodes, which are perfectly reduced, provided the stem is first put through crushing rolls. The yield on the commercial scale is about 45 per cent. of bleached fibre, while the average yield per acre is 5 tons of bamboo.

Bamboo stems are commonly cut at a standard length of 20 feet. The large bamboos have on average diameter of $2\frac{1}{2}$ inches, small bamboos of $1\frac{1}{2}$ inches. The number of 20 foot stems required for 1 ton of bamboo pulp is 440 in case of large bamboos, and 720 in case of the small varieties. Seven hours' treatment at 60 pounds pressure with caustic soda having a specific gravity of 1.075 is sufficient for its reduction, and the product reduced to good color with 6 per cent. of bleaching powder. The fibre is reported to work exceedingly well upon the paper machine.

Even at the present time, when no systematic exploitation of the production of bamboo is in vogue, the large stems selected and intended for building purposes cost only 6s. 6d. per 100, and the price of a quality suitable for papermaking should be substantially less. Mr. Sindall estimates that a ton of unbleached bamboo pulp can be produced by the soda process in a mill within reasonable distance of the bamboo area for about £5 10s. Bamboo grows with such rapidity and is reproduced so easily that, according to Raitt's estimates, a piece of land 4 miles long and 5 miles wide is sufficient to supply a mill making 300 tons of pulp per week with the 35,000 to 36,000 tons of bamboo required as an annual supply.

Development in Cotton Hull Fibre.

There has been during the year a further development in the manufacture of paper stock from cotton hull fibre separated from the hull by the Minck-Segundo machine. These machines are in operation in Germany,

at Marseilles, France, and one or two of them have been installed in this country. The value of the fibre for papermaking purposes has been amply demonstrated, but it remains a question whether a sufficiently large and regular supply of hull can be secured to justify the erection of a plant of any considerable size at a given point. The shrinkage in cooking the separated fibre is from 25 to 35 per cent. The product is available for the highest grades of paper, and the amount of fibre theoretically available is at least 150,000 tons a year. Numerous attempts, however, to secure a guaranteed delivery of 50 tons a day of fibre separated by any of the several machines in use have invariably met with failure.

A Study of Flax Straw Production Conditions.

A thorough study into the conditions under which flax straw is produced in the Northwest has developed many difficulties in the way of the utilization of the great amount of high grade paper stock which is there wasted each year. The production of a perfectly clean fibre, even from twice broken tow, presents unusual difficulties, although our laboratory studies have enabled us to turn out an unusually high grade fibre from this material. The most serious difficulty is the irregularity of the crop, the necessity of acquiring and storing a year's supply during the winter and the wide area over which the supply for a mill of any size must be obtained. Not much more than 10 per cent. of bleached fibre can be counted on as the yield per ton of the straw. A 20 ton mill would therefore require approximately 200 tons of straw a day, or 60,000 tons a year. It is impossible to secure this supply within easy hauling distance, or even within a 12 mile radius of a given point in the flax growing districts, so that to insure a supply it would be necessary to establish numerous small tow mills at other centres and ship the tow to the pulp mill. Even then, about 80 tons a day, or 24,000 tons of tow per year, would be required. To store this supply, even in the form of baled tow, would require an area of 100,000 square feet, piled 24 feet high. The tow mills cannot operate during wet weather, which further emphasizes the difficulties of collection and storage.

But Little Heard of Corn Stalk in 1909.

Comparatively little has been heard of corn stalk paper during the past year. It is probable that further investigation will develop the fact that with this material, as in case of flax, the limiting difficulties will be questions of collecting and storing during the season the enormous amount of crude material required even by a mill of moderate size.

The Problem of Utilizing Bagasse Studied.

Several large associated interests have carried forward during the year an active investigation of the problem of utilizing bagasse as paper stock. The disastrous experience of the many experimenters who have endeavored to solve this problem in the past upon the commercial scale has made it clearly evident that some wholly new line of attack was necessary. It now seems probable that as the

result of a radically new departure in manufacturing methods large quantities of bagasse stock will become available within a short time. The possibility of this result is due to the fact that the new method introduces at the same time large economies in the manufacture of the sugar for which the cane is grown.

Lallang Grass as a Raw Material.

The clearing of large estates in the Malay Peninsula for the planting of rubber trees and the high cost of exterminating the lallang grass with which the ground is infested has again called attention to this grass as a source of paper pulp, but, although the Johore, Malay Peninsula, papermaking concession for utilizing grass was granted in 1891, it has not become a commercial source of fibre. The earlier studies of Clayton Beadle, who found the grass to yield 46 per cent. of a well bulked fibre longer than esparto, have recently been extended by Remington and Bowack, who obtained a yield of 47.41 per cent. of a fibre resembling esparto in papermaking quality.

The two authors last named have also studied American salt marsh grass (*Spartina juncea*), which is found to yield a fibre quite suitable for paper making, although they were unable to wholly free it from difficultly reducible tissues which gave a speckled appearance to the product.

Fresh Water Cord Grass.

The fresh water cord grass (*Spartina cynosuroides*), which is abundant in Illinois, has also been studied at some length by Remington and his associates. It yields 53.47 per cent. of pure cellulose, the ultimate fibres having a length of 2.92 mm. It presents many of the distinctive features of straw pulp, but the fibres under beating become very much frayed, thereby improving the felting property of the pulp. It is reduced in eight to ten hours by boiling in a 10 per cent. solution of caustic soda, and bleaches with some difficulty.

Peat Without Value for Papermaking.

The year has not been free from the usual suggestions as to the availability of peat for papermaking, but the most trustworthy evidence seems to point in every case, as heretofore, to the conclusion that peat is without value as a source of paper stock by reason of the small yield, high color, and short length of fibre.

Trying to Revive Interest in Papyrus.

Several attempts have been made during the year to revive an interest in papyrus as a source of paper stock, and some serious tests are reported to have been made upon the plant by the paper-testing department of the Paris Chamber of Commerce. The ancient papyrus was, of course, in no sense analogous to our modern paper, being composed of slices of pith arranged side by side and compacted by pressure on other slices laid transversely upon them. There seems to be no probability that the papyrus plant will become available as a commercial source of fibrous paper stock.

All Promising Raw Materials Should be Studied.

There can be no question as to the desirability of a systematic investigation of all promising raw materials with a view to extending the supply of available paper stock, but so much of this work is undertaken without due regard to the conditions of the problem that attention should be called to the recent remarks of William Raitt upon the subject of fibre prospecting, which may be abstracted as below.

Tests to be Applied to Fibrous Materials.

The following tests must be applied to a fibrous material to determine if it is to be suitable for papermaking:

First, it must have no value for any other economic purpose.

Second, it must be capable of natural reproduction, and not liable to exhaustion under a reasonable system of cropping.

Third, it must mature at periods not exceeding three years.

Fourth, it must not require cultivation.

Fifth, it must necessitate no manual or mechanical manipulation for separating the fibre.

Sixth, its habit must be gregarious, but it must have sufficient local abundance to bring the cost of cutting and collecting within economic limits.

Seventh, it must contain at least 30 per cent. of cellulose (or, in my own opinion, at least 40 per cent.).

Eighth, the total quantity within economic collecting radius of a mill site must be sufficient to produce at least 25,000 tons of pulp annually.

Ninth, it must grow in a locality possessing cheap labor and a good water supply.

Tenth, it must grow within economic range of power, and transport to seaport.

It may be added that Raitt regards the field as limited geographically by the above considerations to southwestern Asia and to a series of fibrous grasses of which bamboo is pre-eminently the leader.

Inaccuracies in Norris' Report.

In concluding this portion of my report I feel that some mention should be made of the statement submitted by John Norris to the associated Ohio dailies at Columbus, Ohio, on February 2, in which a general attack is made upon the methods of papermaking as practiced in this country. [This was reprinted in *THE PUBLISHERS' WEEKLY* for February 12.—Ed. P. W.] A cursory examination of this statement is sufficient to bring out several of its inaccuracies. Although I have myself on record that more than 600,000 tons of flax fibre suitable for papermaking is destroyed in our Northwest, this waste is not, as Mr. Norris states, due to the ignorance of papermakers, but, as I elsewhere point out, it is chiefly due to the inherent difficulties in the problem of utilization, and especially those of collection and storage. Mr. Norris also states that "the sulphite pulp makers pollute our streams with waste liquor that is the most valuable material known to industrial chemistry, carrying 1,250,000 tons of solid

matter, which exceeds in weight the total news print output in the country." In thus characterizing the waste sulphite liquor Mr. Norris quite overlooks the vastly greater value of the billion cubic feet of natural gas wasted every day, or that of the waste gases from blast furnaces and from beehive coke ovens, no less than the coal tar, the wool grease and countless other wastes of proved value which now escape manufacturers in other lines of industry. That our waste sulphite liquors are not utilized is in no sense due to the papermakers. If any one is to be blamed it is the chemists of the country, and Mr. Norris is doubtless wholly unaware of the stupendous difficulties which have thus far prevented any general utilization of these liquors. They do not in any case have the value that Mr. Norris assumes, nor do they hold forth any promise of yielding products of sufficient value to justify their production from such source, and I do not hesitate to say that at the present time no process is known by which these liquors could be made to yield any product the market for which is great enough to absorb 1 per cent. of the possible production, or, in other words, to take care in this way of the waste liquor from one ton of pulp out of every hundred now produced. There are too many other similar inconsistencies in Mr. Norris's statement to permit at this time the extended reference which their refutation demands.

The Search for Paper Materials in Germany.

During the last two years German scientists have been making a special study of the extent to which the various indigenous fibres of that section of Africa controlled by Germany can be utilized in papermaking.

Here are some of the facts obtained by the German botanists and technical experts:

Sisal hemp, which grows well in soils ordinarily considered barren, produces pulp which makes good paper, but the chief objection to it is the comparative lowness of the pulp yield. Esparto and other wild grasses growing on South American hills and plains, which now dry up and are totally wasted, furnish an excellent grade of paper when cut at the right stage and properly treated.

Good results have also been secured from rice straw, elephant grass, nettles and bamboo growing in Central and East Africa. Papyrus grows abundantly along the lakes and water courses of southern and tropical Africa, furnishing an enormous supply of excellent paper stock.

One of the most important sources of paper now under investigation by Germany is the banana tree. The stems which carry the fruit yield an exceptionally good quality of fibre and the paper made from it shows remarkable resistance to both water and fats.

The capsules or boils of the cotton plant, of which the supply is enormous, have been found to yield a good grade of paper.

Carefully conserved as they have been for a long period, the forests of Germany can no longer meet the domestic demand for wood pulp, hence the country's anxiety to find a future source of supply in its African possessions.

SCIENTIFIC PAPER TESTING FOR PUBLISHERS.

THE Electrical Testing Laboratories, 80th Street and East End Avenue, New York City, which are well known for their work in commercial electrical testing on a large scale, have completed arrangements to test papers and book-binding materials for publishers, printers, bookbinders and paper manufacturers. The service offered by the laboratories was inaugurated in 1896, at which time its efforts were devoted exclusively to the conduct of tests upon incandescent electric lamps. To-day it is prepared to conduct all kinds of electrical and photometrical tests, and in response to demands from other fields of testing is gradually widening its scope to include certain classes of chemical, mechanical and physical testing.

About 80 people are engaged in the conduct of the business involved, most of them being occupied in tests within the 80th Street building, which contains probably the most comprehensive equipment of instruments and apparatus for electrical and photometric testing which has ever been brought together.

It is the policy of the laboratories to conduct tests at the lowest practicable price consistent with insistence upon the necessary accuracy and effectiveness of the tests. For example, acceptance tests upon supplies are as a rule made at a price which is so moderate as to make the purchaser's expenditures for testing unquestionably profitable in directly measurable results. The tests, the results of which are given in the reports submitted by the laboratories, are detailed and as closely accurate as is commercially practicable or desirable.

The first analyses made on the samples of paper submitted for tests are MICROSCOPICAL. A small scrap of the paper is boiled from fifteen minutes to an hour in a one per cent. solution of caustic soda to remove coating, size and coloring matter. The pellet of fibre remaining is washed with pure water, shaken to a pulp in a test tube, and mounted on a slide and stained in the usual manner to bring out fibre characteristics.

In commercial papers there are, roughly speaking, four classes of fibres at present used: 1, rag cellulose; 2, chemical wood cellulose; 3, esparto (an Algerian grass much used in English papers), straw and bamboo cellulose; 4, mechanical wood pulp. These are graded as above in the order of their durability, which corresponds also to their desirability and cost.

Chemical wood pulp is of three grades: the sulphite, which is the cheaper pulp (generally spruce in the United States), giving a more transparent paper; the sulphate (little used); and soda pulp, which is more rounded in section, more opaque and slightly more durable. In a fair commercial grade of book paper a microscopical analysis gives sulphite fibre 30 per cent., soda fibre 40 per cent., rag fibre 30 per cent. Other papers, entirely lacking in rag fibre, may to any but an expert eye, look very similar or equally good. Mechanical wood pulp is also often added in very cheap paper.

The PHYSICAL TESTS are made largely with precision instruments specially designed for the purpose. For instance, to test *extensibility* and *tensile strength* (i.e., toughness or resistance to tearing) strips of paper 180 mm. long by 15 mm. wide are pulled to the breaking point in a Schopper Tester. Just before it breaks the same machine automatically registers the paper's maximum extensibility. Both extensibility and tensile strength vary considerably with the pull "across the web" or with it. The average percentage of elasticity on a fairly good book paper is $1\frac{1}{4}$, greater than one would probably imagine; the average tensile strength of a standard strip 180 x 15 m. (roughly 7" x $\frac{3}{8}$ ") of such a paper is 4 kg. (10 lbs.). Of course, the tensile strength varies directly with the weight. This would be for a paper 30 x 40/80, or of a similar weight. If two papers of equal tensile strength differ in extensibility, the one showing the greater percentage of elongation (i.e., the greater toughness) is the better of the two. The importance of these tests, from a bookbinder's standpoint, for example, is obvious.

The *thickness* of the sheet is measured with a specially contrived automatic micrometer; and the *bursting strength*, (a test of more interest to bookbinders or manufacturers of paper bags than to publishers) with a "Mullen tester," which works on the hydraulic principle. The *relative humidity*, or percentage of moisture in air during test, is measured on a hygrometer. On the tendency to absorb atmospheric moisture depends to a certain extent the strength of the paper, since a paper, when either too damp or too dry, loses strength.

The last analyses given are CHEMICAL. The amount of *ash* in fair book paper is 10-20 per cent, all but 1 per cent. of this being due to filler, loading and coating. This *filler* may be, in order of cheapness and undesirability:

1. China clay or kaolin (hydrated aluminum silicate).
2. Barytes and blanc fixe (both forms of Barium sulphate, the first being merely the mineral ground up, while the second is artificially prepared).
3. Gypsum, terra alba, annaline, pearl hardening or crown filler (all forms of calcium sulphate, the first two being the ground mineral with impurities, while the latter is artificially prepared).
4. Asbestine, agalite and powdered talc (chiefly magnesium silicates).

The next most important chemical constituent of the paper is the *size*, forming from 1 to 10 per cent. This is generally a rosin size, though on the finer grades of ledger and bond papers an animal size, either glue or gelatine, is used. The gelatine size is preferable. Excess of rosin size is a factor in the disintegration of paper.

Starch is occasionally present—for the same purpose it is used in ironing clothes, to give a smooth finish and a certain "feel" to the paper.

Chlorine, as a residue of the bleaching process which the pulp has undergone, is present in small quantities. Any in excess of 1 per cent.

is objectionable, since the chlorine compounds tend to disintegrate and make the paper brittle.

Free acid, a residue of the sulphurous acid, or sulphite, process, is another objectionable constituent, rarely found except in the cheapest grades of newspaper.

The penetration of the paper is important from the printing standpoint, answering the question as to whether, with a given thickness of paper, a certain ink will "strike through" before drying. It is measured by floating a piece of the paper on the surface of a bath of potassium ferrocyanide and streaking the upper surface with ferric sulphate. When the two meet a blue precipitate of ferric ferrocyanide forms. The time it takes a liquid to penetrate varies considerably. A paper like blotting paper is instantaneous.

Another machine, to be shortly in operation, will measure *folding durability*, by alternately creasing and uncreasing a bit of paper along a given fold until the paper breaks at the fold. The number of folds before breaking is registered automatically.

The "test for paper sample," covered by the Certificate of the Government's Bureau of Standards, includes practically the same points as that of the Electrical Testing Laboratories, except that the tests for "tensile strength" and "extension" are omitted.

As a concrete example of such a paper test there follows herewith a report made by the Electrical Testing Laboratories on the paper used in this issue of THE PUBLISHERS' WEEKLY, a medium grade super.

REPORT NO. 8800. RENDERED TO "PUBLISHERS' WEEKLY."

TEST OF ONE SAMPLE OF PAPER.

Order No. 5882.

SAMPLE NO. 105.

Microscopical Analysis: Fibre Composition.

Rag.....	10%
Sulphite Wood.....	50%
Soda.....	40%

Physical Tests:

Bursting strength, lb.....	10.0
Thickness, mils.....	3.1
Ratio, strength to thickness.....	3.22
Wt. 500 sheets (50 x 60 cms.) lb.....	28.9
Tensile strength, kg.—machine.....	3.9
“ “ “ cross.....	2.0
“ “ “ avg.....	2.95
Breaking length, meters.....	2251
Extension, %—machine.....	2.5
“ “ cross.....	3.8
“ “ avg.....	3.15
No. times folded before rupture—machine.....	3.0
“ “ “ cross ..	3.0
“ “ “ “ avg.. ..	3.0

Notes:

Relative humidity, 69%.

Tensile test specimens 1.5 cm. wide, 18 cm. long.
Folding endurance specimens 1.5 cm. wide, 10 cm.
long, and under tension of 1 kg.

*[It is interesting to note in this connection, as a practical illustration of the value of regular paper tests to periodical and book publishers, that this report, prepared merely as a sample report for this paper number, called attention to the fact that our PUBLISHERS' WEEKLY, paper is temporarily running 10% rag instead of the 20% proportion of rag called for in our paper specifications, a shortage of rag occasioned, as we since learned, by a breakdown of the power operating the beating machinery of the mill. We shall print the report of the test of our regular paper a little later, which it may be interesting to compare with this report. Ed. P. W.]

Chemical Analysis:

Ash, %	22.75
Rosin size, %	0.56
Animal size, %	None
Starch, %	None
Free Chlorine, %	0.017
Acidity	None
Filler	Clay
Penetration by 5% $K_4Fe(CN)_6$	Instantaneous

Approved by

FRED. FARMER,
Engineer.

A. C. KRAFT,
In Charge of Test.

June 14, 1910.

PAPER-MAKING MATERIALS AND THEIR CONSERVATION.*

PRACTICALLY all fibrous vegetable materials will make paper, the quality being governed by the percentage of fibre sufficiently resistant to stand the action of the chemicals necessary to reduce to a working condition the most resistant fibres, while the quality of the paper which these materials will make is determined by the length, strength, and felting qualities of the fibres and the chemical nature of the cellulose which they contain; the longer and stronger the fibres and the purer the cellulose (the more closely it corresponds to normal cellulose), the better the paper, the longer it will last, the more wear it will stand, and the less it will discolor with time and use.

CLASSIFICATION OF MATERIALS.

The materials which may be used in paper making can be roughly divided into four groups:

(1) Seed hairs, of which cotton is the only representative.

(2) Bast fibres, such as flax, jute, hemp, ramie, China grass, sun hemp, common nettle, paper mulberry, and the fibres obtained from the fibrovascular bundles of plants such as manila and New Zealand flax.

(3) The whole stems and the leaves of straws and grasses, such as esparto (leaves only), corn, sugar cane, bamboo, other wild and cultivated grasses, cotton stalks, and materials of like nature.

(4) The various kinds of wood, those most used being spruce, hemlock, poplar, and cotton wood.

Most of the materials of the first three classes are used in paper making in the form of wastes from other industries; those of the first two classes as scutching, mill, and rag wastes of the textile industries; while those of the third class are used in the form of wastes from the agricultural industries. Esparto, bamboo, and paper mulberry are not wasted from other industries, but are gathered primarily for paper making. The use of materials in the form of waste is not due to particular difficulties in separation or handling nor to the unsuitability of the original

*Condensed from the valuable paper "Paper-Making Materials and Their Conservation," by F. P. Veitch, Chief of the leather and paper laboratory of the Bureau of Chemistry, and issued as Circular 47 of the Bureau of Chemistry of the Dept. of Agriculture.

material, but solely to the fact that these materials in their original form command a higher price for other purposes than for paper making.

Indeed all of these materials will make paper of greater strength, durability, and value before going through other manufacturing processes, or when used in the form of worn or soiled rags. For example, new cotton fibre, as baled cotton, or that known as "linters," which is removed from the ginned cotton seed as a preliminary step in the cotton-oil industry, is perfectly suited for the manufacture of high-grade paper, but the demand at the price that must be asked does not justify the use of this material for paper making. Similar conditions exist as to the materials of the second class, which command from 3 to 20 cents per pound for the manufacture of cloth, bagging, ropes and cordage.

The materials of the first two classes, because of the length, strength, and felting qualities of their fibre and the resistance to chemicals and to decay of the cellulose they contain, can be made into papers of the highest quality.

The materials of the third class belong chiefly to the class of compound celluloses known as pecto- and ligno- celluloses, and are distinguished from the paper-making point of view not only by the presence of celluloses of different chemical composition and lower felting qualities, but also by a larger content of non-fibrous cellulose which, although it has some desirable qualities even when present in large quantities, as in bagasse or cornstalks, produces parchment-like effects in the papers made from them. A further technical objection to these materials is that the chemical treatment required to reduce the fibre properly is too severe for the non-fibrous cellulose, which is overcooked and partly dissolved, resulting in low yields of weak paper. Esparto, of which only the leaves are used, is an exception to these general statements, and yields a larger percentage of strong, uniform fibre than the other members of this group. This class of materials, except esparto and bamboo, have, as a rule, short fibres and yield a small quantity of low-quality paper in comparison with the other groups, though some of them are not markedly different from woods in the latter respect.

For the past twenty years wood, chiefly spruce and poplar, has furnished the greater part of the paper made in this country. In 1907, 3,962,660 cords were used, yielding on an average 1200 pounds of pulp per cord of wood, or a total of about 2,547,879 tons of pulp, which would make approximately 80 per cent. of the paper and board annually produced in this country. The fibres of the soft coniferous woods are longer than those of the hard deciduous woods, the former being from 1 to 4 millimeters in length, while the latter are from 0.5 to 2.5 millimeters long. Spruce is more commonly used for making ground wood and pulp by the sulphite process, while poplar is almost exclusively reduced by the soda process. However, these woods may be

treated by either process, depending on the cost of material, the location of the mill, etc.

Because of the exhaustion of the supplies of spruce and poplar within a reasonable distance of the mills, large quantities of other kinds of wood have been used for many years, not only for making board, bogus manila, and wrapping papers, but also for white papers, such as are used for news, book, and low-grade writing papers. Thus in 1907, 576,154 cords of hemlock, 78,583 cords of various kinds of pine, 43,884 cords of balsam, 66,084 cords of cottonwood, and 125,162 cords of other kinds of wood were used for making paper, the larger part being chemically treated. Among the pines, white, gray, loblolly, and longleaf yellow pines are being used, while among the miscellaneous woods employed are red and white fir, larch, aspen, gum, cypress, beech, birch, maple, basswood, buckeye, and chestnut; other woods which are available in large quantities are being constantly experimented with at various mills. Indeed, practically all woods may be used for paper making, such use being governed chiefly by the character of the wood supply near the mill.

YIELDS OF PULP ON A MANUFACTURING SCALE.

The percentage yield of pulp and paper varies with different materials, and that from a given material varies with the severity of treatment to which it is subjected and the kind of paper made—the better the quality of paper the lower the yield. The yields usually obtained from the more commonly used materials are as follows:

	Per cent. of paper obtained.
Rags.....	70-80
Esparto.....	40-45
Straw.....	40-50
Wood, sulphite.....	40-50
Wood, soda.....	40-50
Waste fibres, paper, bagging, scutching waste..	75-90
Bamboo.....	40
Jute.....	50

The relative expense of making paper from different materials cannot be discussed in detail. It may be said, however, that the cost of chemicals per ton of paper is greater, as a rule, for wood than for other materials, and the time of cooking is longer. On the other hand, wood is cleaner, more can be placed in the digester, and the pulp requires less beating than longer and stronger fibres. What difference there is in the cost of mill treatment of the various materials, provided they pass through all the chemical processes and are used in the same grade of papers, is probably in favor of wood. Therefore only those materials which will yield an equal quantity of as good paper and which can be delivered at the mills at no greater cost can compete successfully with it. In other words, it is largely the cost of the raw substance rather than the mill treatment that determines the availability of paper-making materials. The relative cost per ton of paper on the basis of the assumed cost of the raw materials is shown by the following table:

Cost of raw material required to make 1 ton of paper at the stated prices for the raw materials.

Material.	Cost of material at mill per ton	Yield of paper.	Cost of material per ton. of paper.
	Dollars.	Per cent.	Dollars.
Wood.....	*6	40	10.00
Cotton stalks, straw, bagasse, cornstalks.....	*8	40	13.25
Flax straw.....	2	35	5.75
Old bagging.....	5	35	14.33
Scutching waste.....	13	80	19.00
Linters.....	15	80	32.5
Waste paper.....	16	80	20.00
Rags.....	20	80	25.00
Manila and hemp rope..	40	80	50.00
Esparto.....	20	80	25.00
Hemp fibre.....	40	80	50.00
Cotton.....	100	90	111.00

*Per cord †Based on 400 pounds of fibre per ton.

Greater cost of production alone, due chiefly to greater cost of raw material, or coupled with lower quality of product, renders impracticable the use of many wild and cultivated plants. Thus an initial cost for straw of \$5 per ton at the mill prevents its competing with wood at \$8 per cord for making white paper. The same statement holds in a general way for marsh grasses, sugar-cane bagasse, cornstalks, cotton stalks, etc., from all of which acceptable papers can be made, but at a greater cost than from wood under present conditions.

UTILIZATION OF STRAWS AND WILD GRASSES.

Straws and other grasses contain compound celluloses which exist both in the form of fibre and of non-fibrous cellular material, and yield from 30 to 50 per cent. of white paper. These substances are likely to contain much dirt, collected from the ground, which is difficult to remove; if any remains, it increases the cost of treatment and mars the quality of the paper. Cereal straws were generally employed for the cheaper papers before wood was used, and even now are used extensively for making papers and board. As has been said, the cost of making a good quality of paper from these materials, except possibly under exceptional conditions, is greater than from wood, but they are suitable for making cheap wrapping papers and boards when the proximity of the mills to the raw material and increased yield compensate for somewhat greater original cost of raw material or greater cost of treatment.

LARGER USE OF WASTE TEXTILES AND WASTE PAPERS

Approximately 2,030,000 tons of cotton, flax, hemp, jute, manila, sisal, and other vegetable textile fibres are made into fabrics annually in this country, and all of this sooner or later in the form of cuttings, waste from the manufacturing processes, and rags, finally finds its way into other industrial uses or is destroyed. Statistics show that approximately 400,000

tons of this kind of material, 200,000 of which are imported, ultimately reach the paper mill, leaving about 1,800,000 tons of fabrics, practically all of which is destroyed. This is sufficient to make 1,440,000 tons of the very best paper. Of course it is not possible to recover all of this material. There is some loss in the manufacturing processes through which it passes and a great loss due to wear, but it is a conservative estimate to say that 1,000,000 tons of paper stock could be secured annually from this source alone, and at 1 cent per pound (rags sell at from 1 to 6 cents per pound) would be worth \$20,000,000.

This 1,000,000 tons of waste textiles would make 800,000 tons of the strongest, most durable, and best paper, or more than enough to supply all the book, cover, plate, writing, high-grade wrapping, and blotting paper and Bristol board now made in this country.

More than 3,000,000 tons of paper are now made annually in this country, of which fully 80 per cent., or 2,400,000 tons, becomes waste material in three or four years. Of this, about 25 per cent., or 588,000 tons, is again used in the form of new paper cuttings and trimmings and old paper for making new. Here also we estimate that fully 1,000,000 tons of raw material which would make 900,000 tons of paper could be readily saved from waste at a cost for collecting that would permit its use, as most of it is to be found in the cities and towns in the form of old books, writing paper, news paper, wrapping paper, and pasteboard. Most of this waste is not suitable for high-grade papers, but could readily be used for wrapping, cover, and blotting paper, and boards. The wholesale price of such paper ranges from \$2 per hundred pounds for new high-grade cuttings to \$1 for new white paper, and from 65 cents for folded newspaper to 20 cents per hundred for common scrap paper of any kind. Valuing the waste paper at 0.5 cent per pound, the 1,000,000 tons of paper now wasted that could be saved is worth \$10,000,000 per annum, and would make all of the building, bagging, cover, blotting, and miscellaneous papers, and all the paper board now produced. Though the cost of raw material per ton of paper is slightly greater at the above valuation than when produced from wood, the cost of manufacture from waste paper is much less, so that the product made from waste paper is fully as cheap as that from wood.

GATHERING AND GRADING.

A more general appreciation, particularly among the country people, of the market value of rags, old rope, and waste paper of all kinds would increase largely the supply of paper stock and add considerably to the income of the people. The value for paper making of the waste textiles of the country is greater than the value of the rye crop, one-twentieth that of the wheat crop, one-third of the total value of the products of the saddlery and harness industry, half as great as that of the hardware, and as great as that of the fur goods industry. Rags to the value of \$9,000,000 annually are now used for paper

making and about three times this quantity could probably be secured, which, at the same valuation, would distribute approximately \$27,000,000 among the people; \$7,000,000 worth of waste paper is used each year in paper making, but it is estimated that three times this amount can be saved, distributing \$20,000,000 per year among the people. It is evident, therefore, that the value of the waste textiles and paper annually destroyed is large and that if these can be gathered profitably, their use will serve the double purpose of producing good paper and of conserving other materials.

The various grades of rags with their current prices are shown in the following table:

Market grades for rags, with current prices.

	Cents per pound.
New shirt cuttings, No. 1.....	5½-6
New blue cotton.....	3-3½
New mixed cottons.....	1¼-1½
Soiled white:	
Street.....	1¼-1½
House.....	1½-1¾
No. 2 New Yorks.....	1½-1¾
Street seconds.....	1-1½
Thirds and blues.....	1-1½
No. 1 satinette.....	1-1½
Hard black carpets.....	½-¾

GRADES OF WASTE PAPER.

Different kinds of waste paper also sell at different prices, and as mixed paper sells at a comparatively low price, it is profitable to grade it. The following table shows the market grades for waste paper in this country, with current prices of each:

Market grades for waste paper, with current prices.

	Price per 100 pounds.
No. 1 hard white.....	\$2 10-\$2 15
No. 2 hard white.....	1 80-1 90
No. 1 soft white.....	1 45-1 50
No. 1 colored.....	65-70
No. 2 colored.....	45-55
Flat stock.....	75-80
Crumpled sheet stock.....	70-75
Book stock.....	55-65
Solid ledger stock.....	1 40-1 50
Ledger stock.....	1 20-1 25
No. 1 white news.....	1 05-1 10
White paper.....	90-1 00
Extra new manila cuttings.....	1 25-1 30
New manila cuttings.....	1 05-1 15
No. 1 old manila.....	65-70
No. 2 old manila.....	40-45
New box board chips.....	35-40
New straw chips.....	40-45
Bogus paper.....	50-60
Mill wrappers.....	50-60
Strictly new overissue news.....	55-65
Strictly folded news.....	40-45
Broken news.....	25-30
No. 1 mixed news.....	25-30
Straight straw and other boxes.....	35-40
Mixed straw and other boxes.....	30-35
No. 1 mixed papers.....	20-35
Common papers.....	15-20

As with rags, new, clean, white materials command higher prices than old, soiled, printed, or colored materials. The kind of fibre of which the paper was made also affects the price, as is shown by the quotation of ledger cuttings as compared with No. 1 book stock, the former as a rule being made of rags, while the latter is largely chemical wood. Therefore in order to secure the high-

est market price, waste paper should be graded as shown by the table.

REDUCTION OF WEIGHT AND BULK OF PAPERS.

All classes of paper now made are almost invariably needlessly heavy and thick. The purpose for which paper is employed, whether it be for printing, writing, or wrapping, can be as well accomplished in nearly all cases, both from the utilitarian and the æsthetic point of view, by lighter and thinner paper, as suggested in the preceding section, if greater care in manufacturing is taken. The strength and quality are improved at the same time, and the consumption of paper reduced thereby from 15 to 50 per cent., to the advantage and profit of the consumer. Thus the employment of 60 and 80 pound book papers, or even of 50-pound paper, is a totally unjustified waste in most cases, as every purpose can be accomplished by 30 and 40 pound papers. Much lighter and thinner writing and wrapping papers can be employed in the vast majority of cases with quite as satisfactory results as are obtained from papers that weigh 80, 100, and 120 pounds per ream.

THE NECESSITY FOR GROWING PAPER-MAKING MATERIALS.

It has frequently been suggested that materials be produced for paper making just as any other farm crop is grown, and it is worth while to inquire into the necessity for doing this. Summarizing the foregoing conservative estimates, there are annually produced in the United States agricultural and industrial wastes furnishing raw materials in much greater quantity than can be consumed in paper making for many years to come.

Estimate of wastes suitable for paper making produced annually.

Material.	Quantity.	Waste. Value.	Yield of paper.
	Tons.	Dollars.	Tons.
Waste textiles suitable for papers of the highest quality and strength.....	1,000,000	20,000,000	800,000
Flax fibre suitable for the best and strongest paper..	600,000	18,000,000	480,000
Forest waste from lumber industry suitable for medium and low grade paper	*12,000,000	60,000,000	5,000,000
Waste paper suitable for high quality and lowest quality.	1,000,000	10,000,000	900,000
Cereal straws suitable for medium quality paper and bards	70,000,000	350,000,000	28,000,000
	*Cords.		

*Cords.

The industrial conditions that have made wood the chief raw material will undoubtedly continue to encourage its extensive use for many years, so that the price of wood will largely fix the price of any competing material. Manifestly no comparisons in dollars and cents can be made, and it will probably be sufficient to say for the guidance of those interested in growing paper-making plants that the problem primarily resolves itself into a financial one.

METHOD OF PRESERVING DECAYING PAPER.

SINCE the report was issued by Librarian Hill, of the Brooklyn (N. Y.) Library, to the effect that the library's newspaper files were rapidly decaying, resulting in the loss of historical material of great value, an effort has been made to get in touch with methods of preserving such paper as newspaper publishers use. Within the past week a report has been published by a Brooklyn daily newspaper, stating that word has been received from Professor W. Herzberg, head of the Governmental Paper Testing Institute of Berlin, Germany, reporting that experiments recently initiated by the institute have resulted in producing a liquid mixture by the use of which wood pulp paper may be indefinitely preserved.

The success of the new treatment, which involves dipping the sheets to be preserved in a chemical solution, is said to be very surprising. According to the published statement, sheets which before were rotting and about to fall to pieces can be handled readily, and acquire a parchmentlike firmness. If, after an interval of several decades, it should be found necessary to repeat immersion in the solution, this will not damage the paper, and it would seem that in this way published matter might be preserved for centuries.

REPORT OF THE PAPER COMMITTEE OF THE AMERICAN CHEMICAL SOCIETY, DEC., 1909.

At the June meeting of the Society in 1908, at Mr. Veitch's request, Mr. Tolman laid before the Council some results which the former had obtained on the paper then used in the *Journal of the American Chemical Society* and *Chemical Abstracts*, which brought out the fact that this paper did not comply with the specifications, was of low quality and needlessly heavy and bulky. The Council, on motion of Mr. Tolman, appointed a committee consisting of Dr. W. A. Noyes, Dr. McMurtrie, Mr. A. D. Little, Mr. M. L. Griffin and Mr. Veitch to "consider the quality of the paper used in the journals" and to secure, if practicable, more suitable papers.

In the execution of its duties it has been the purpose of the committee to secure the most durable, strongest, lightest, thinnest, most opaque and cleanest paper, having a surface not injurious to the eyesight, that it was possible to procure for the money available.

The problem is complicated by the fact that certain characteristics which a paper should have are diametrically opposed to other equally, or more, important qualities. Thus lightness and thinness are secured at the expense of opacity, while opacity means greater thickness and weight, or less strength and durability. In a paper of a given weight and thickness opacity is secured at the sacrifice of strength and durability; lightness and thinness are secured at the sacrifice of strength, durability and opacity. It is evident, there-

fore, that any paper must be a compromise among opposing characteristics and the nature of this compromise is determined by the purpose for which the paper is to be employed. In effecting this compromise the committee steadily endeavored to maintain essentials and to accentuate utility. The committee recognizes that there are members of the Society who would much prefer what they would declare is a better-appearing paper, one that is thicker, stiffer and less transparent. This view has not been ignored by the committee. It is believed, however, that the briefest consideration of the subject and the most cursory comparison of the current issues, particularly the bound volumes, with those of last year will furnish convincing evidence in support of the action of the committee.

It was difficult to secure an acceptable paper at a price which the Society could pay. The specifications are more stringent than it is customary to draw for paper of this class. Paper-makers prefer to make heavier and thicker paper, as more can be produced for the same operating expenses, and further, the printer feared the new paper would not work satisfactorily on the presses, and urged that no change be made. All of these difficulties and objections were finally overcome and a paper made to comply with the following specifications was secured:

Stock.	
Rag.....	75 per cent.
Bleached chemical wood or equivalent thereto.....	25 "
Ash—China clay.....	5 "
Weight (26 x 38, 500).....	42 pounds.
Strength (Mullen).....	15 "
Folding number (Schopper) if practicable.....	10
Sizing $\frac{3}{4}$ rosin—no starch.	
Finish—uniform machine, same on both sides.	
Color—uniform, natural.	
Paper must be well washed to remove soluble salts and bleaching materials.	

The comparative value of the old and new papers is shown except so far as opacity is concerned, by the following statement of the composition, strength, and folding qualities of the papers:

Stock.	Old.	New.
Rag.....	20 per cent.	77-81
Bleached chemical wood.....	80 "	23-19
Ash.....	12-20 "	6.4-8.7
Weight—ream 26 x 38, 500 lbs..	60 "	40-42
Thickness, thousandths inch....	3.8 "	3.0
Double folds (weak direction)...	2 "	3-4
Strength, Mullen.....	5-10 lbs.	12-14.5

From these specifications it is clear that the paper now used is much superior in durability and strength to that formerly used and it was estimated would cost no more for a year's supply.

The committee has endeavored to improve this paper for 1910. It is fully realized that it will not withstand indefinitely the severe usage of library reference, such as the publications of the Society are subjected to. So far, however, improvement has not been feasible, except that the opacity has been increased by increasing the ash from 5-8 per cent. The cost of the paper has been reduced from 6.84 cents to 6.55 cents per pound.

It has not been the object of the committee to have the publications cost less, however, and though the same paper at a materially lower cost has been selected for next year's issues, the committee hopes ultimately to secure a much better paper which may cost more.

During this year the committee has, after consultation with and the approval of Mr. Richardson, the editor, drawn the following specifications for the paper for the *Engineering and Industrial Journal*:

Stock.	
Rag.....	60 per cent.
Bleached chemical wood or equivalent thereto.....	40 "
Ash.....	15 "
Weight, ream.....	100 pounds.
Thickness thousandths inch, maximum.....	0.0032
Strength, Mullen.....	15 "
Sizing, rosin, no starch.	
Finish, uniform, supercalendered, same on both sides.	
Color, uniform, natural.	
Paper must be well washed to remove soluble salts and bleaching materials.	

The comparative value of the paper in the current volume and the proposed paper is indicated in the following table:

Stock.	Present paper.	New paper.
	38-60 per cent.	60 per cent.
Bleached chemical wood	62-40 "	40 "
Ash.....	16-26.7 "	15 "
Weight ream 35 x 48, 500.....	126 pounds.	100 pounds.
Thickness, inch.....	0.0035-0.0040	0.0032
Strength, Mullen...	9-14 pounds	15 pounds.
Double folds.....	1-2 "	net det'n.
Sizing.....	rosin.	rosin.

In other words, the new paper will be of better stock, will be stronger, thinner, lighter, contain less loading and will as a consequence prove more durable in service. The improvements are along the lines followed in the *Journal* paper, but the changes will not be so marked. The committee estimates that the saving in printing and mailing the *Industrial Journal* will approximate \$200 per annum.

In closing this report of progress your committee would emphasize again the fact that its efforts have been against the modern print paper making practice, which emphasizes quantity rather than quality. Final results are not therefore obtained at once.

HOUSE VOTES FOR PAPER TESTING.

As told editorially in last week's issue, the House has appropriated \$30,000, under an amendment to the Sundry Civil Bill offered by Representative Mann, of Illinois, for tests to be made by the Department of Agriculture of woods and other substances which might prove available for paper making.

After Mr. Mann had pointed out the diminishing sources of paper material and had called attention to the fact that the price of paper had recently risen from \$2 to \$4 a ton, Representative Swasey, of Maine, made a speech in which he charged that newspapers had "muckraked" public men who did not accept their views in favor of free wood pulp and paper.

The "tentative plan for the co-operative ground-wood experiments of the Forest Service (Department of Agriculture) and the American Paper and Pulp Association" involves only the investigation of wood materials and only the production of wood pulp for news papers and papers of similar grade.

After careful consideration of the various methods of attacking the problem, the following, it is believed, will give the most satisfactory results, viz., To conduct the experiments with commercial equipment and under conditions ordinarily encountered in commercial practice.

The commercial feasibility of utilizing any species of wood for the manufacture of ground wood is in main dependent upon the quality of pulp produced and the cost of production. These in turn are chiefly dependent upon such fundamental manufacturing conditions as:

"Surface of stone, peripheral speed of stone, pressure on grinder, temperature of grinding, moisture condition of wood, etc."

Briefly, the work will be an experimental study of the relation of these factors to the quality of pulp reduced and the cost of production.

The scope of the work should be limited to a study of the first three conditions mentioned above. One condition at a time should be varied, and complete records of quality of pulp, rate of production, power consumption per ton, and losses, should be made for each run.

Valuable information will be obtained regarding the fundamental and underlying principles of grinding wood, a subject on which there is a deplorable lack of knowledge.

The information obtained in these tests cannot help being of great value, however, to manufacturers of book papers; and would in all probability lead to further and more comprehensive investigation.

NOISELESS PAPER.

NOISELESS paper for programs is being used in Germany. An expert paper chemist has pointed out that the raw material (a soft pulp) may either be soda or sulphate cellulose, Rittner-Kellner pulp, straw-pulp, or esparto; the exceptionally soft character is imparted by the addition of 30 per cent. filling substance in the form of kaolin.

TRAVEL MAGAZINE FAILS.

A PETITION in bankruptcy has been filed against the Travel Bureau, Incorporated, publisher of the *Travel Magazine*, at 333 Fourth Avenue, New York City, by Saul S. Myers, attorney for these creditors: Bulkley, Denton & Co., \$8365, for paper; Isaac H. Blanchard Company, \$6617, money loaned and printing, and the Vogue Company, \$2000, money advanced. Judge Hough appointed Jesse Watson receiver. The liabilities are \$36,000 and the assets consist of accounts, \$3000, and good will, estimated at between \$5000 and \$15,000.

The business was started in August, 1906, as Walter A. Johnson & Co., and the name was changed to the Travel Bureau on July 21, 1907. Walter D. Gregory is president, William Griffith, secretary, and David S. Walker, treasurer. The latter is a son of John Brisbane Walker. Besides the petitioning creditors the corporation owes Mr. Griffith \$5000 and a Mr. Harrison, of Philadelphia, \$5000.

BEST SELLING BOOKS IN APRIL.

ACCORDING to the *Bookman's* list, the six books (fiction) which have sold best in the order of demand during April were:

	POINTS.
1. A Modern Chronicle. Churchill. (Macmillan.) \$1.50.....	382
2. White Magic. Phillips. (Appleton.) \$1.50.....	95
3. The Rosary. Barclay. (Putnam.) \$1.35.....	89
4. Lady Merton, Colonist. Ward. (Doubleday, Page.) \$1.50.....	80
By Inheritance. Thanet. (Bobbs-Merrill.) \$1.50.....	66
5 and 6. The Kingdom of Slender Swords. Rives. (Bobbs-Merrill.) \$1.50.....	66

The best-selling juveniles in April were:

	POINTS.
1. Betty Wales & Co. (Penn Pub. Co.) \$1.25.....	51
2. Anne of Avonlea. (Page.) \$1.50...	41
3. Motor Boy Series. (Cupples & Leon.) 50 c.....	37
4. Flutterfly. (Houghton Mifflin.) 75 c.	35
5. The Head Coach. (Scribner.) \$1.50.	25
6. Anne of Green Gables. (Page.) \$1.50.	20

The best-selling non-fiction in April was:

The Spirit of America. (Macmillan.) \$1.50.
An Admiral's Log. (Appleton.) \$2.
A Vagabond Journey Around the World. (Century.) \$3.50.
The Blue Bird. (Dodd, Mead.) \$1.20.
Spirit of Youth and the City Streets. (Macmillan.) \$1.25.
Valor of Ignorance. (Harper.) \$1.80.

OBITUARY NOTE.

SIR GEORGE NEWNES, dean of the English popular periodical press, and owner and founder of the *Westminster Gazette*, *Tit-Bits*, the *Strand Magazine*, *Wide World*, etc., died last week Thursday in London. He was born in Derbyshire in 1851, educated in the common schools and was for a time clerk in a business office. Soon after his marriage in 1875 he planned *Tit-Bits*, a unique periodical on anecdotal lines. It was an immediate and phenomenal success. He was the pioneer in magazine publication at a popular price and for the lower middle class reader; and the two present leaders in the field, Lord Northcliffe, with his eighty publications—dailies, weeklies and monthlies—and C. Arthur Pearson, were trained in his employ. From 1885-95 he was a member of Parliament. In 1899, in conjunction with Alfred Stead, he founded the *Review of Reviews*. Among his other magazines were *The Grand Magazine*, *Country Life*, *Woman's Life*, etc. The business, incorporated for \$2,000,000 as Sir George Newnes, Ltd., will be carried on by his son. Sir George was several times a visitor to America. His magazines sell more largely here, perhaps, than those of any other English publisher.

PERIODICAL NOTES.

THE LITERARY MAGAZINE COMPANY, of Des Moines, Ia., has suspended business. Its liabilities are stated to be about \$17,000 and assets \$15,000. The company issued *The Literary Magazine*, a Sunday magazine supplement for newspapers.

The Bard is supposedly not a humorous magazine, yet that is the impression made by the prospectus of its initial number. We learn *The Bard*, an English periodical, is "established by the Human Epic Society for the Awakening and Encouragement of Epic Poetry."

AFTER several vicissitudes of size, price and contents the *Burr McIntosh Monthly* has at last suspended publication. Among other magazines which have recently discontinued are Boston's *Bean Pot Magazine*, *The Auto Magazine*, *The Catholic Mirror*, *Tatler*, *Toot Toot*, *Waverley Magazine*, *Western World* and *Western Home Journal*.

THE circulation of the *Cunard Daily Bulletin* on the steamship "Lusitania" is over 2000 a day now, and has reached 2500. This can no longer be called a little sheet. It has thirty-two pages, 10 inches by 6. It is excellently printed on fine glazed paper and sells at 5 cents. It goes to press at 1 A.M. and is ready for the breakfast table like the newspaper ashore.

IN the *British and Colonial Printer and Stationer* J. R. Riddell, of a Nottinghamshire firm, gives some interesting observations of American publishing and printing methods, the results of a recent trip through all the larger plants of Boston, New York, Philadelphia, Washington and Chicago. Among the plants he describes more fully are those of *Collier's Weekly*, the *New York World*, Curtis Publishing Co., Government Printing Office, etc. The points which surprised him most, aside from American ingenuity in mechanical invention, our greater business systemization and nerve in discarding obsolete methods or equipment, were the large proportion of women employed, the magnitude of output and the way we let workmen smoke while at work!

PERSONAL NOTES.

POLITICIANS, lawyers, novelists and publicists were among those attending the dinner given by Colonel George Harvey, of Harper's, at Claridge's last week Wednesday evening. The number included the Duchess of Marlborough, Mr. and Mrs. Martin W. Littleton, of New York; Mrs. Catherine Cecil Thurston, Mr. Anthony Hope Hawkins, Mr. Lloyd George, Mr. T. P. O'Connor, Lord and Lady Dunsany, Lady St. Helier and Lady Sarah Wilson.

JOHN H. SAUMENIG, of the firm of John H. Saumenig & Co., stationers, Baltimore, will have completed fifty years' continuous service in the book and stationery business on June 27. He entered the employ of the late Cush-

ings & Bailey on June 27, 1860, and continued with them for forty-three years, until the death of the last member of the firm. He then commenced business on his own account, having associated with him Lewis R. Curlett and Newton R. Haen, both employees of the old firm. Their business has grown until now they count among their patrons the leading banks, financial institutions, schools and colleges of Baltimore and the vicinity; and in connection with the stationery business they supply books to schools and colleges on special order.

LITERARY AND TRADE NOTES.

THE LOTHROP, LEE & SHEPARD Co. call the attention of the trade to their trade-mark ownership of the phrase "Dorothy Dainty" used in any book connection.

LEMCKE & BUECHNER have just published "A Manual Flora of Egypt," by Reno Muschler, of Royal Botanic Garden at Berlin, a book which will be of particular interest to those contemplating the Nile voyage.

E. P. DUTTON & Co. have completed the rearrangement of their offices. The general offices and sample and reception rooms are now on the second floor on the 23d Street side of the building. The former offices on the ground floor will be used as additional stock room space for the *Everyman's Library*.

A. C. McCLURG & COMPANY have a timely book in view of the interest and excitement that will hold sway in New York when Mr. Roosevelt returns to-day. This is "T. R. in Cartoons," by McCutcheon. These drawings show our energetic ex-President at various places and times in his strenuous career, and are most entertaining.

THE Putnams, who published the Melrose First Prize novel, "A Marriage Under the Terror," have just published also the novel which won the second prize, "Vera of the Strong Heart," by Marion Mole. It also is published at a net price. It is said to be intensely original, full of dramatic situations and unusually well written.

DUFFIELD & Co. are bringing out a uniform edition of "The Writings of Fiona Macleod," the pseudonym under which William Sharp wrote during the years 1894 to 1905. Two volumes are ready, one containing "The Sin Eater" and "The Washer of the Ford," the other "The Dominion of Dreams" and "Under the Dark Star." Mrs. William Sharp has edited these writings according to the wishes and instructions left with her.

DODD, MEAD & COMPANY will publish Saturday, June 25, "The Girl Who Won," by Beth Ellis. Several years ago Miss Ellis's first story, "Barbara Winslow, Rebel," a tale of the Monmouth Rebellion, was published and received considerable favor, running into a number of editions. Her new story, "The Girl Who Won," is likewise an historical romance, being a story of a Jacobite maiden who is wooed and won by an officer in the regiment of King William's guards.

OWING to the death of King Edward, it is announced by Cassell & Company that the

new and revised edition of their "Dictionary of English History," just off the press, will be temporarily withdrawn from the market. It is planned by the publishers to bring the new edition quite up to the accession of King George, which will mean the addition of several pages of new material. This issue will make the seventh reprinting and fifth revision of this widely-known reference and library book since 1884.

THE publications of the Macmillan Company for the week ending June 18 are: "Text Book of School and Class Management, Vol. II: Administration and Hygiene," by Dr. Felix Arnold (15th); "The Practice of Midwifery," by Alfred L. Galabin and George Blacker (16th); "A Naturalist in the Bahamas," by John I. Northrop (15th); "The Wonders of Physical Science," by E. E. Fournier (15th); "The Knights of Aristophanes," edited by Benjamin Bickley Rogers (15th); and "The Ramparts of Empire," by Frank Fox (15th).

CHARLES FROHMAN, Henry Hertz and Jean Cocquelin have brought an action against William Morris, Inc., and William Morris, in which, on June 3, Mr. Justice Amund granted a preliminary injunction pending the hearing of a motion to make the same permanent, restraining the defendants from in any wise using the name of "Chantecler" or "Chantclair," or any colorable imitation thereof, and from advertising the performance of their burlesque under that or any similar title.

THE INDEPENDENT PRODUCING COMPANY, recently formed by John Cort, Charles Klein, E. V. Giroux and others, announces that it has signed contracts with Paul Armstrong, author of "Alias Jimmy Valentine" and other plays, and Jules Eckert Goodman, author of "The Test" and "The Man Who Stood Still," whereby the entire output of plays by these two authors will be at the disposal of the company for a period of five years. The company has also secured the dramatic rights of "The Dreamers," a novel by Upton Sinclair, which is soon to be published.

D. APPLETON & COMPANY have ready this week "Problems of the Elementary School," by Arthur C. Perry, Jr., author of "The Management of a City School." The first part of the book, Problems in Organization, is concerned with the broad general problem dependent upon the organic structure of the elementary school, and the second, Problems in Method and Management, with specific phases of its work as planned and directed by the principal of a school or the teacher of a class.

ARTICLES on Tourgenief by Francis Gribble and Richard H. P. Curle in this month's *Fortnightly Review* call attention to the report of the discovery at Bougival, France, of an important unpublished manuscript by Tourgenief, who in 1883 was at the house of Mme. Pauline Viardot in Bougival, which is a suburb of Paris. It is said to be a novel, the publication of which was forbidden by Tourgenief until ten years after his death. Mme. Viardot, who for many years was his faithful

friend, has since died also, leaving a mass of private papers, among which was this literary treasure.

THE MONTANA Railroad Commission has ordered reductions in all express rates in Montana, to be effective June 13. The commission holds that the rates charged for the transportation of matter by express within the State are unreasonably high, are not warranted by operating, physical or other conditions, and that the rates are discriminatory against the State as compared with the rates in effect in other States on interstate traffic. The present rate to transport 100 pounds of merchandise, 60 cents, is reduced to 40 cents; the general merchandise rate of 50 cents is cut to the new rate, 40 cents. To transport 100 pounds of merchandise 100 miles \$1.50 is charged at present; under the new rates \$1 will be charged.

HENRY MILNER RIDEOUT is a novelist who believes in starting on his story at full speed without spending any time to warm up with a page or two, or even a paragraph or two, of prelude, description or explanation. In his new novel, "The Twisted Foot" (Houghton Mifflin Co.), the hero falls overboard from a steamer and is left swimming about in mid-ocean—all in the first twenty lines. Within five minutes he has boarded by force a sailing canoe, manned by two mysterious Malays; found, hidden away in the cockpit, a white man's coat with the photograph of a beautiful girl in it; escaped murder from the two Malays; intimidated them into setting him ashore on a coral island; discovered a secretive Englishman, fortified in a log cabin; and embarked on a series of adventures which keep him and the reader abundantly occupied until the last page is turned.

It is generally agreed that Theodore Roosevelt reached his high-water mark in literary achievement in his Romanes lecture at Oxford. It was a wonderful production and worthy of the occasion. One does not look for musical prose in Mr. Roosevelt's writings, but even that is discovered in this eagle-eyed survey of the rise and fall of empires. The *Springfield Republican* marks the measured swing of the sentences in his vivid description of the decline of Rome by putting them in stanzas:

It was the distance and the desert
Rather than the Parthian horse bowman
That set bounds to Rome in the East,
And on the North her advance was curbed
By the vast reaches of marshy woodland
Rather than by the tall barbarians who dwelt therein.

During the long generations of her greatness,
And until the sword dropped from her withered
hand,
The Parthian was never a menace of aggression
And the German threatened her but to die.

L. C. PAGE & COMPANY announce for publication this week something new in the way of a travel volume—a volume of real houseboat travel—entitled "Houseboating on a Colonial Waterway," by Frank and Cortelle Hutchins. The book is the story of a summer lazed away upon the James River and some of its tributaries. "Gadabout," a lovable, lubberly craft, starts in at the mouth of

this our oldest colonial waterway, following some three hundred years later in the wake of the quaint old caravels, "Sarah Constant," "Goodspeed" and "Discovery." She comes one morning to the historic Jamestown Island, and, casting anchor there, sets her little family of voyagers ashore to wander among the ruins of Olde James Towne, the birthplace of our country. Then on up the "Great River" again she takes her way, skirting now a bank of to-day and again a seventeenth century shore. Under lightness of style is strict historical accuracy, and the work has the endorsement of recognized authorities on the colonial history of Virginia. It will prove delightful reading for the idle summer hour.

CHARLES SCRIBNER'S SONS publish this month the following: "Rock and Water Gardens, Their Making and Planting," by F. W. Meyer, with a chapter on Wall Gardening by E. P. Cook; "A New Shakespearean Dictionary," by Richard John Cunliffe. This book embodies the results of a fresh and systematic examination of the language of the Shakespeare Canon. "Germany and the Germans," by Robert Berry, with numerous illustrations. A new volume in the popular *Countries and People's Series*, uniform with "Italy of the Italians," "France of the French," etc. It deals entirely with the German people of the present day, who are described in a very graphic and readable way. Also new editions of Baedeker's "Southern Germany" and Murray's "Handbook of Travel Talk," a collection of questions, phrases and vocabularies in English, French, German and Italian. New, revised and augmented edition, brought up to date, with new section on pronunciation. "The Self-Revelation of Our Lord," by J. C. V. Durell, B.D., Rector of Rotherhithe and author of "The Historic Church." This study aims to trace the progressive apprehension of the claims of Jesus by His disciples and then to show that the interpretation of those claims, given by the apostolic band, is true.

ONE of the most extraordinary pieces of quick newspaper work ever accomplished was performed on the night of Friday, May 6, by the London *Daily Mail*. On receiving at 25 minutes after midnight news of the death of King Edward VII., the whole of the stereoplates that had been cast for next morning's issue—with the exception of those of the last page of the paper, which had yet to be prepared—were "scrapped," and a complete new set cast in their place. This meant recasting 966 plates, and was done by the employment of two out of the three autoplate machines installed in the *Daily Mail* office, the work being completed in time to enable the printing of over one million copies of the *Mail* before 6 A.M. A completely re-cast paper, with 24 columns of special matter, seven special illustrations, every column rule turned, and the whole paper in complete mourning was thus presented to its readers. Seven hundred plates were turned out in 2 hours 25 minutes, and the *Daily Mail* was not content with one special edition, inasmuch as within ten minutes from the last plate of this edition being cast a four-page change, with fifty sets to each page, was sent into the foundry; and

at four o'clock in the morning a complete extra edition of the *Weekly Dispatch* was asked for and completed by 4:25. The call on the foundry continued all day on Saturday for the *Evening News*, with a result that within 24 hours a grand total of 3344 plates were cast on the two autoplates. This is probably a feat unrivalled in newspaper annals.

A LAMENT has been heard in the land over the sterility of imagination in the choice of "The Green Mouse," by Robert W. Chambers, as the title of his lately published fanciful novel; and this, forsooth, because of "The Red Mouse," "The Blue Mouse," "The White Mice," etc. Mr. Chambers and his publishers must be getting rather tired of this sort of superficially "smart" comment about Mr. Chambers' titles. In the present instance they can point to the fact that a short story published in the *Saturday Evening Post* five years ago by Mr. Chambers bore that title, then copyrighted by him, and that this story forms the basis of the present novel, and is incorporated in the first four chapters. Now this story appeared and was circulated broadcast many, many months before the varicolored litter of rodents known as "White Mice," "Red Mouse," "Blue Mouse" and so on were cast for the further infesting of the world. And yet Mr. Chambers' mouse, the venerable dam and grandam of the herd, is frowned on as a product of sterility. The title of Robert W. Chambers' new book, which D. Appleton & Company will bring out in the autumn, is "Ailsa Paige." It is noteworthy that this is the first time that Mr. Chambers has used the name of a person for his title since he wrote "Iole," and the first time he has so named any of his longer novels since "Cardigan." The new story, which is appearing in the *Saturday Evening Post*, portrays life in New York and Brooklyn at the outbreak of the Civil War, and in the latter part of the book are some stirring scenes at the "seat of war" of the kind that Mr. Chambers depicts with such graphic and life-like fidelity.

BESIDES Robert Herrick's new novel, "A Life for a Life," the Macmillan Company published last week a number of important books of non-fiction. In their *Color Books* is "The Alps," described by Sir Martin Conway, with 23 illustrations from photographs by L. Edna Walter, a cheaper edition than that with illustrations in color by A. D. McCormick, R.I. Another geographical book is Gordon Home's "The Motor Routes of France," with 16 full-page illustrations in color, 16 in black and white, and 60 maps and plans, covering the Châteaux of Touraine, Biarritz, the Pyrenees, the Riviera, and the Rhone Valley. J. G. Frazer's four-volume work on "Totemism and Exogamy, a Treatise on Certain Early Forms of Superstition and Society," is a monumental work which is perhaps the most valuable contribution to ethnographical knowledge of modern times. There also appears a completely revised edition of R. H. Inglis Palgrave's three-volume "Dictionary of Political Economy;" and the

third and concluding volume of Professor Saintsbury's "History of English Prosody," covering the period from Blake to Swinburne. Arthur E. P. Weigall's "Guide to the Antiquities of Upper Egypt" has been prepared for the use of visitors to the monuments of Upper Egypt, that is to say, all those situated between Balianeh, the southernmost town of Middle Egypt, and Adendân, the last Egyptian village on this side of the Soudan frontier. Each chapter in this guide has been written actually in, or in a few cases a stone's throw away from, the temples or tombs therein described, and the information supplied is derived from careful and prolonged personal observation and thought.

D. VAN NOSTRAND Co. wish to call the special attention of the trade to their *Westminster Series* of non-technical handbooks on the useful arts, materials and manufactures, written by experts for the practical popular reader. The series at present includes the following: "Natural Sources of Power," by Robert S. Ball; "Introduction to the Chemistry and Physics of Building Materials," by Alan E. Munby; "The Manufacture of Paper," by R. W. Sindall; "Timber," by J. R. Baterdeen; "Soils and Manures," by J. Alan Murray; "Electro-Metallurgy," by J. B. C. Kershaw; "Radio Telegraphy," by C. C. F. Monckton; "Electric Power and Traction," by F. H. Davies; "Electric Lamps," by Maurice Solomon; "Iron and Steel," by J. H. Stansbie; "The Railway Locomotive," by Vaughan Pendred; "Town Gas for Lighting and Heating," by W. H. Y. Webber; "Liquid and Gaseous Fuels," by Vivian B. Lewes; "Coal," by James Tonge; "Indian Rubber and Its Manufacture," by H. L. Terry; "Glass Manufacture," by Walter Rosenhain; "Decorative Glass Processes," by Arthur Louis Duthie; "The Book, Its History and Development," by Cyril Davenport; "Precious Stones," by W. Goodchild; "The Law and Commercial Usage of Patents, Designs and Trade Marks," by Kenneth R. Swan; "The Precious Metals, comprising Gold, Silver and Platinum," by T. Kirke Rose. In preparation are the following additional titles: "Wood Pulp and Its Applications," by C. F. Cross, E. J. Bevan and R. W. Sindall; "Steam Engines," by J. T. Rossiter; "Pumps and Pumping Machinery," by J. W. Rossiter; "Workshop Practice," by G. F. Charnock; "Textiles and Their Manufacture," by Aldred Barker; "Photography," by Alfred Watkins; "Commercial Paints and Painting," by A. S. Jennings; "Brewing and Distilling," by James Grant.

BUSINESS NOTES.

JACKSON, MICH.—Edward I. Musliner, doing business under the trade name of Brown's Book Store, is in bankruptcy.

KINGSTON, ONT.—The College Book Store offers to settle with its creditors on the basis of 33⅓ cents on the dollar.

LAWRENCE, KAN.—A trustee has been appointed for the Stevenson Book Co.

LYNN, MASS.—Mendlow Bros., booksellers, have filed a petition in bankruptcy.

MARSHFIELD, ORE.—F. H. Crosby and F. A. Homer have opened a new book and stationery store under the firm name of Crosby & Homer.

MISSOULA, MONT.—McHaffie Bros.'s bookstore has been sold to H. H. Bateman & Co.

NEW YORK CITY.—Samuel French, publisher of plays, has moved from 26 W. 22d Street to 28-30 W. 38th Street.

NEW YORK CITY.—Rand, McNally & Co. will move from 142 Fifth Avenue to 42 E. 22d Street about June 6.

NEW YORK CITY.—A petition in bankruptcy has been filed against the Catholic Publication Society of America, book publisher, at No. 437 Fifth Avenue, by Charles J. Foltz, attorney, for these creditors: Photogravure & Color Co., \$1024; De Vinne Press, \$1870, and Erbe, Combie & Lamothe, \$1120. It was alleged that the corporation is insolvent, made preferential payments, and on June 4 admitted in writing inability to pay its debts. Judge Hough appointed J. Murray Dewey receiver, with a bond of \$2000, at the request of some of the creditors, and authorized him to continue business 30 days. He is treasurer of the corporation. Liabilities are \$6000 and assets \$4000, consisting of books, plates, drawings, publication rights, accounts, office furniture and subscription list. The company was incorporated in May, 1909, under Maryland laws, with capital stock \$10,000, and had an office for corporation purposes in Baltimore. Samuel H. Arundel-Bell, of London, became president, and Arthur M. Easter, of Baltimore, secretary. The principal work of the corporation is the publication of the "Lives and Times of the Popes," in 10 volumes, and the sets sell for \$100 to \$1000 per set. It was stated that there is a very fair profit at these prices, and that a great deal of money had been spent in bringing the works to public notice. Mr. Foltz said that the petitioning creditors could not get their money for work done, and that the only way to get it was to file a petition in bankruptcy. It was understood in the trade that the corporation had the backing of a multi-millionaire of Philadelphia.

PLAINFIELD, N. J.—The Lenox Co. will shortly open a stationery and office supply store on Madison Street.

SISTERSVILLE, W. VA.—The R. J. Smith Book Store has been transferred to James P. Chaplin, Jr.

SAN DIEGO, CAL.—E. M. Burbeck has opened a book and stationery store on Fifth Street.

TRENTON, N. J.—The Publishers Press, a \$500,000 corporation, was incorporated last week by C. N. Jones and Frank C. Coleman, Jr., of New York City, W. F. Downs and John R. Turner, of Jersey City, and E. L. Heydecker, of Mt. Vernon, N. Y. Its purpose is news collection and distribution and general news service. The New Jersey corporation will, it is understood, succeed the present New York company of the same name.

Books Wanted

Under this head booktrade subscribers, under their own names, are given five nonpareil lines (exclusive of address) free advertisement for books out of print in any issue except special numbers, but not exceeding 100 lines a year. If over five lines are sent the excess is at 10 cents a line. Books not out of print, repeated matter, and all advertisements from non-subscribers, cost 10 cents a line. Objectionable books are excluded so far as they are noticed. In answering, please state edition, condition and price, including postage or express charges. Houses that will deal exclusively on a cash-on-delivery basis should put [Cash] after their firm-name. The appearance of advertisements in this column, or elsewhere in the WEEKLY, does not furnish a guarantee of credit. While it endeavors to safeguard its columns by withdrawing their use from irresponsible advertisers, booksellers should take usual precautions in extending credit.

Write your wants plainly, on one side of the sheet only. Illegible "wants" are ignored. The WEEKLY is not responsible for errors. Parties with whom there is no account must pay in advance.

Adair Book Store, 43 E. Van Buren St., Chicago, Ill.

Philochristus. Pub. by Roberts Bros., Boston.

History of the Cargills. Pub. by A. C. McClurg & Co.

Woman's Rights and Duties, by an English Author.

Walsh's Handbook of Literary Curiosities.

Alison's Old Book Shoppe, 805 Poydras St., New Orleans, La. [Cash.]

Old Louisiana Books.

Arthur M. Allen, 454 Fulton St., Troy, N. Y.

Sheik's White Slave, Raife.

Escaped Nun.

Golden Butterfly, Besant.

Captive Youths of Judah.

Science Progress, first 14 nos.

Ashley, W. J., English Economic History, 2 vols.

Cunningham, W., English Industry and Commerce

in Modern Times.

Strand, Nov., 1908; March, '09.

McMaster's History of the People of the U. S.

Amer. Antiquarian Soc., Worcester, Mass.

Thurloe, State Papers, 1742, 7 vols.

American Press Co., Baltimore, Md.

Lippincott's Magazine, July, 1878.

Harper's Magazine, Sept., 1880; June, '82.

International Review, Aug., 1881.

Cosmopolitan, July, 1880.

Green Bag, Boston, April, 1891; June, '94.

Americus Book Co., Americus, Ga.

Any books by Mason L. Weems.

Any old Washington items.

Hopkins, On Real Property.

Any De Bow's Review.

Any Acts of Georgia Legislature.

W. H. Andre, 604 Kittredge Bldg., Denver, Colo.

The Worship of the Brazen Calf. State binding and condition.

Baker & Taylor Co., 33 E. 17th St., N. Y.

Valentine, T. W., The Valentines in America.

Pub. by Clark & Maynard.

Wm. Ballantyne & Sons, 428 7th St., N. W., Washington, D. C.

Hall, W. M., State Bank Notes.

Hardenbrook, Financial New York.

Harvey, Coin's Financial School.

Hist. of New York Stock Exchange. Financier Co.

Kinder, The Effects of the Recent Changes. 1899.

Bolles, American Finance.

Carlile, W. W., Evolution of Mod. Money.

Clews, H., Finance and Politics.

Clews, H., Wall Street and the Nation.

Gallatin, A., Suggestions on the Bank and Currency.

Greene, J. L., Bimetallism.

Linderman, Money and Legal Tender in U. S.

Sherwood, Hist. and Theory of Money.

Smith, R. H., The Silver Question.

Spaulding, E. G., Hist. of Legal Tender Paper Money Issued During the Rebellion.

BOOKS WANTED.—Continued.

Wm. Ballantyne & Sons.—Continued.

Stark, E. D., Bimetallism and the Royal Commission.
 Norman, J. H., Complete Guide.
 Parsons, F., Rational Money.
 Phillips, H. J., Hist. Sketches of Paper Currency of the American Colonies.
 Platt, J., Money.
 Walsh, C. M., Fundamental Problems in Monetary Science.
 Walsh, C. M., Measurement of General Exchange Values.
 Watson, D. K., Hist. of Amer. Coinage.
 Webster, S., Misuse of Legal Tender.
 Wheeler, S. P., Real Bimetallism.
 Willis, H. P., Hist. of the Latin Monetary Union.
 Bulloch, C. J., Finances of U. S.
 Barrows, H. D., International Bimetallism.
 Jackson, C. C., Has Gold Appreciated.
 Morse, J. T., Life of Alex. Hamilton. L. B. & Co.
 Walker, B. E., Canadian System of Banking and Nat. Banking System of U. S.
 Walker, F. A., Bimetallism.
 Amer. Bankers' Ass'n, Action of Executive Council.
 Belmont, Repub. Responsibility for Present Currency Perils. Putnam, '98.
 Borden, An Essay on Value. Rand, McNally.
 Bronson, Hist. Account of Connecticut Currency.
 Del Mar, Hist. of Monetary Systems in Anc. and Modern Times.
 Del Mar, Hist. of Money in America.
 Del Mar, Hist. of Precious Metals.
 Del Mar, Money and Civilization.
 Orton, The Andes and the Amazon.

N. J. Bartlett & Co., 28 Cornhill, Boston.

Arlo Bates, Told in the Gates.
 Christian Worship. Scribner's Sons.
 Mather's Magnalia, vol. 2. Hartford, 1855.
 Raleigh's Discovery of Guiana.
 Whitney's Jungle Trails and Jungle People.
 Sam'l Johnson's Life of Richard Savage.
 Sam'l Johnson, Journey to Western Islands.
 Child's Jim Hands.
 Turkey of the Ottomans. Scribner.

Bobbs-Merrill Bookstore, W. E. Stewart Co., Indianapolis, Ind.

Ann Mary Coleman, Life of John J. Crillerden.
 James Whitcomb Riley, Old Swimming Hole, 1st ed.

The Bookerie, P. O. Box 768, Oakland, Cal.

Booksellers' catalogues.
 World's Great Snare, Oppenheim, E. Phillips.
 Anything by Oppenheim, E. Phillips.

C. L. Bowman & Co., 225 Fifth Ave., N. Y.

Century Dictionary of Names.
 Greek World Under Roman Sway.

Brentano's, 5th Ave and 27th St., N. Y.

Charcoal Burner's Handbook, by Svedelius.
 Young Lives, by Le Gallienne.
 Mexico, by de la Barca.
 Ornamental Plantations and Gardens, by Scott.
 Fletcher's Hist. of Poland.
 Tyndall's Lectures on Light.
 Corvo's Stories Toto Told.
 Charles's Honduras.
 Wells's Honduras.
 Any of Jokai's Books.
 Dunham's Hist. of Poland.
 Hedges's Rules of Logic.
 Herder's Spirit of Hebrew Poetry.
 Set of London Browning Soc. Papers.
 Delanoy's 19,000 Pounds.
 Hartzka's Freeland.
 Hist. of L. I. Prince or Thompson.
 Laut's Lords of North.
 Wood's Roland Yorke.
 Mallock's Old Order Changes.
 Ticknor's Hypocritical Romance.
 Blackwood's John Silence.
 Indian Fairy Tales.
 Clouston's Popular Tales and Fiction.

Brentano's, 1228 F St., N W Washington, D C

Seiman, Botany of Voyage of H.M. Ship "Herald." 1852.
 South Amer. ed of London Times.
 Brackenbury, Frederick the Great.
 Greene, Russian Army and Its Campaigns in Turkey.
 Conrad, Heart of Darkness.

Bridgman & Lyman, 108 Main St., Northampton, Mass.

Mulliken, S. P., Method for the Identification of Pure Organic Compounds, vol. 2 only. Wiley.
 Yale Yarn, Seymour Wood. Knickerbocker Press. 1898.

Albert Britnell, Toronto, Canada. [Cash]

Ragnarok, Donnelly. Harper, N. Y.

Brooklyn Institute Museum Library, Eastern Parkway, Brooklyn N. Y.

Lea, Isaac, Observations on the Genus Unio.

The R. L. Bryan Co., Columbia, S. C.

A Human Document.

Burgerdijk & Niermans, Leyden, Holland.

American Journal of Insanity, vols. 1 to 37 and 63, and following.

The Alienist and Neurologist, St. Louis, vol. 20, 1907, and following.

Gummere, Beginnings of Poetry. N. Y., 1901.

Callaghan & Co., Chicago, Ill.

Greenleaf's Evidence, 3 vols., 15th ed.

Campion & Co., 1316 Walnut St., Phila., Pa.

Harvard Episodes, Flandrau.

Pike's Constitutional History of the House of Lords.

Carnegie Library, Atlanta, Ga.

Poet Lore, vol. 2, March, May, Nov., and index, 1890; vol. 4, Jan., Feb., March, April, May, Aug., Sept., and index, 1892; vol. 5, Jan., March, April, Dec., and index, 1893; vol. 6, January, and index, 1894.

Carnegie Public Library, East Liverpool, O. [Cash.]

Dalzell's Private Life of John Gray.

O. N. Caspar Co., 431 E. Water St., Milwaukee, Wis.

Maw, Travels in the Interior of Brazil.
 Featherman, History of Races of Mankind, 5 vols.
 McAlpine, Treasures from Poetic World.

J. J. Cass, 337 Adams St., Brooklyn, N. Y.

Dickens, Christmas Stories, Merrill octavo ed.
 Books on the Jersey Prison Ship.
 Bernard's Lights on Masonry.

The Central Book Store, Harrisburg, Pa.

English Hymns, Their Authors and History, by Rev. Sam'l Duffield.

The A. H. Clark Co, Caxton Bldg., Cleveland O

Dauncey, Englishwoman in the Philippines.
 Mayflower Descendants (The), Jan., 1909, to date.
 Hunt, T. S., Systematic Mineralogy. N. Y., 1891.
 Hartford, Connecticut, History of.

A. S. Clark, 218 Washington St., Peekskill, N. Y.

Nation (Newspaper), nos. 2155, 66, 86, 90, 92, 94-95, title and index, vols. 82, 84, 85.

W. B. Clarke Co., 26 Tremont St., Boston, Mass.

The Cotton Kingdom, by F. L. Olmstead, in 2 vols. 1861.

Colesworthy's Book Store, 68 Cornhill, Boston, Mass.

Tower Hill, by Ainsworth.
 Ancient Ships, by Cecil Torr.
 Navigation Simplified.

Columbia University Book Store, 117th St. and Broadway, N. Y.

Keller, Out of Work.

F. X. Conlan, 3529 Ellis Ave., Chicago, Ill.

Lippincott's Magazine, Sept., 1907.

Connor's Book Store, 232 Meridian St., E. Boston, Mass.

A. A. Bronson, set.
 St. Thomas Aquinas, Works.
 Wild's Hist. of the Councils.
 St. Augustus, City of God.
 Cooley's Cuts to Euclid.

Peter Cohan, Grove St., Saratoga Springs, N. Y.

Robert Ingersoll.

M. Curlander, Baltimore, Md. [Cash.]

Boutell's Heraldry, 3d ed. 1864.

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Kemble's Coons.

**Dawson's Book Shop, 518 So. Hill St.,
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California, Arizona and Southwestern books wanted.

A. W. Dellquest Book Co., 215 7th St., Augusta, Ga.
[Cash.]

Acts of Anti-Slavery Apostles, by Parker Pillsbury.
Life of James Lackington. London, 1791.
Dramas and Poems of Metastasio, Hoole's trans., 3
vols. London, 1800.
Two Summer Girls and I.

**DeWolfe & Fiske Co., 20 Franklin St., Boston,
Mass.**

Johnston's Narrative.
Naval History of the United States, Peterson.
Keene's Fly Fishing and Fly Making. Forest and
Stream.
Indian Operations on the Plains, by H. B. Har-
rington.

Along the River, by M. E. Braddon.
Balzac's Petits Bourgeois, 2 vols.
Balzac's Memoirs of Two Young Wives.
Balzac's Modiste Mignon.
Balzac's Ursule Mirouet.
Balzac's Celibates.

History of Cawnpore, Shepherd.
My Native Wife, Story of Indian Mutiny.

Dixie Book Shop, 41 Liberty St., N. Y.
[Cash.]

Any book published by Universal Business Institute.
Lecky's European Morals.
Any item on Life Insurance, except Reports.
Trow's City Directory, 1909.

Doubleday, Page & Co., 133-137 E. 16th St., N. Y.
2 copies of The Reasonableness of Faith, by W. S.
Rainsford.

Daniel Dunn, 677-679 Fulton St., Brooklyn, N. Y.
R. L. Stevenson, Life, vol. 1; Letters, vol. 2.
Dasent, Burnt Njal, vol. 2, Edinburgh ed.
The Federalist, Dawson, 8°, uncut, vol. 2. 1864.
St. Nicholas, vols. 1 and 2.

G. Dunn & Co., 403 St. Peter St., St. Paul, Minn.
Folly of Ignorance by Lea.
Harper's Weekly, Feb. 8, 1902; May 8, '09.
West Coast Magazine, April, 1910.
Forum, Dec., 1909.
Nation, Jan. 7, 1909.

E. P. Dutton & Co., 31 W. 23d St., N. Y.
Mawson, Art and Craft in Garden Making. Scribner.
Cromwell, American Business Woman. Putnam.
Keller, Out of Work.

W. C. Edwards, Sibley Block, Rochester, N. Y.
Willis, Fun Jottings.
Trollope, Barsestshire Chronicles, 1st ed.

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Barlow, The Voices, 2 copies.

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Fike & Fike, 307 W. 4th St., Des Moines, Ia.
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Storage Battery, Fitzgerald.
Sherman's Memoirs.
Bandit of the Prairies.
Belden, the White Chief.

H. W. Fisher & Co., 214 S. 15th St., Phila., Pa.
Simple Adventures of Memsahib, by Mrs. Cotes.
Appleton.
Makers of American Literature, by L. Sears.
Boies, Science of Penology. Putnam.
Real Louis xv., by Haggard. Appleton.
Underground Railway, by Smedley.

S. B. Fisher, 45 Sanford St., Springfield, Mass.
Packard, 5th Report on Insects Injurious to Plants,
U. S. 1898.

W. Y. Foote Co., University Block, Syracuse, N. Y.
Kaplan's Baby Biography, old ed.

Fowler Bros., 543 So. B'way, Los Angeles, Cal.
Castaway in the Auckland Islands, Musgrave.

**Franklin Bookshop, (S. N. Rhoads,) 920 Walnut
St., Phila., Pa.,**

Insect Life, vol. 3, nos. 7 and 8; vol. 6, nos. 4 and
5; vol. 7, nos. 4 and 5.
Gummere, Friends in Burlington, N. J. 1884.
Audubon's octavo plates, Birds of America, nos. 1,
40, 73, 118, 283, 284, 346, 488, 490, 491, etc.
McKenney and Halls' Indians, folio, vol. 2.
Richardson's Fauna Boreali Americana.
Brinton's Maya Chronicles.

Free Public Library, Jersey City, N. J.

Grant, Adventures of Rob Roy.
Robins, Tree of Knowledge.
Grismer, Way Down East.

W. E. Funk, Agt., Dayton, O.

Wakefield Theology.

Goodspeed's Book Shop, 5a Park St., Boston, Mass.

Cooper, Darley: Jack Tier, The Headsman, Miles
Wallingford.
Wheeler, Courses of Empire.
Whitney, H. M., Whitney Ancestry in England.
Hist. of the 23d Mass. Regiment.
Les Miserables, trans. by Wilbour. N. Y., 1863.
Les Miserables, trans. by Wilbour. N. Y., 1887
(reprint).
Audubon, Birds, 1st 8vo ed., set.
Audubon, Birds, vol. 6, Lockwood ed.

Edwin S. Gorham, 37 E. 28th St., N. Y.

The Perfume of Eros, Edgar Saltus.
Scarabæus, Story of an African Beetle, by Clara
Lanza and J. C. Harvey.

John L. Grant, 145 Genesee, Utica, N. Y.

Britton and Brown, Flora of Northern U. S. and
Canada.

Hackney & Moale Co., Asheville, N. C.

Memoirs of Colonel Chas. S. Todd, by G. W.
Griffin.

Hahne & Co., Newark, N. J.

The Life of Madame De Staël.

W. B. Harison, 15 Broadway, N. Y.
[Cash.]

Viele's Topographic Map of N. Y. City.

The Harrison Co., Inc., Atlanta, Ga.

*Southern Reporter, Southeastern Reporter and Fed-
eral Reporter*, complete sets or odd vols.

Harvard Co-operative Society, Cambridge, Mass.

Jones, Judah. Macmillan.
Langbaine, Account English Dramatic Poets. Lon-
don, 1699.
Smith, Old-Fashioned Folk. Lee.
Prevost, Letters of Women. Meyers.
Rizal, Eagle Flight. D., P. & Co.

B. Herder, 17 So. Broadway, St. Louis, Mo.

Lesquereux and James, Mosses of North America.

Bruno Hessling Co., Ltd., 64 E. 12th St., N. Y.

Litchfield, History of Furniture.
Hatton, Figure Composition, ed. of 1895.

Hinds & Noble, 31-35 W. 15th St., N. Y.

Frank Norris's Moran of the "Lady Letty." Pub.
by Doubleday, Page & Co.

**Hirschfeld Bros., Lim., 13 Furnival St., Holborn,
London, E. C., Eng.**

Transactions of the American Orthopedic Assoc.,
vols. 4 and 5.

Paul B. Heeber, 69 E. 59th St., N. Y.

Index Catalogue Surgeon General's Office, 1886, '97,
1903, '05 to date.
Am. Journal Obstetrics, June, 1908; Nov., '09.

W. S. Houghton, 64 New Park St., W. Lynn, Mass.

Christian Science Journal, vol. 12.
World's Work, Nov., Dec., 1900; Jan., Feb., '01.

BOOKS WANTED.—Continued.

W. S. Houghton.—Continued.

Jl. Science Quarterly, March, 1887.
Review of Reviews, May, Aug., 1891.
Journal of Social Science, nos. 10, 19.

The Hub Magazine Co., 110 Tremont St., Boston.
Annals of Am. Academy, May, 1898; Supplement to vol. 11.
Arena, Oct., 1898; April, 1902; Jan., '04.
Technical World, March, April, 1904.
World's Work, Jan., Feb., 1901.

Mumphrey's Book Store, 21 Bromfield St., Boston.
Fast and Loose in Dixie, by J. M. Drake.
Century of American Medicine. Phila., 1876.

Hunter & Co., Richmond, Va.

Thackeray, any old illus. ed.

H. R. Huntting Co., Besse Pl., Springfield, Mass.
 Stillman Gott.

Hyland Bros., Portland, Ore.

Poetical Fancies.
 Victor, River of the West.

Illinois Book Exchange, 407 Lakeside Building, Chicago, Ill.

Schoolcraft's Indians, Respecting the History, Condition and Prospects of the Indian Tribes of the United States, vol. 5. Phila., 1853 to '57 ed.
 Stephens's War Between the States, vol. 2, any binding.
 Eddy's Science and Health, 2 vol. eds.
 Voorhees's 40 Years of Oratory, 2 vols.
 Life and Speeches of Thomas Corwin, by Josiah Morrow.

Geo. W. Jacobs & Co., 1216 Walnut St., Phila., Pa.
 Appolis, or the Way of God, Bishop Cox.
 Conditional Immortality, Bishop Huntington.

O. P. James, 127 W. 7th St., Cincinnati, O.
 Shenstone, Poems.
 The Kenyon Book, ed. by Dr. W. B. Bowden. Phila.

William R. Jenkins Co., 851 6th Ave., N. Y.
Good Housekeeping Magazine for Jan., 1909.
 2 copies Prince Uno. Pub. by Doubleday, Page.

E. W. Johnson, 121 E. 23d St., N. Y.
 Blumner, Home Life of Ancient Greeks. Cassell.
 Letters of Madame Guyon.
 Northcote and Brownlow, Roma Sotteranea.
 Moll Flanders, old Eng. ed.
 Manon Lescaut, old Eng. ed.
 Joseph Andrews, old Eng. ed.
 Longstreet, From Manassas to Appomattox.
 I. C. S. Book on Painting and Drawing.

Johnson's Book Store, 391 Main St., Springfield, Mass.
 Kipling, Outward Bound ed.

Ernst Kaufmann, 22-24 North William St., N. Y.
 The Annual American Catalog, 1890-1901.
 The Publishers' Trade List Annual, 1890-1901.

King Bros., 1182 Market St., San Francisco, Cal.
 2 Webster's International Dictionary, 1900 revision.
 Philip Hanson, M.D., by Hastings.
 Adventures of a Marquis, Dumas. Pub. by J. B. Petersen.
 Science and Health, Eddy, 12th ed., 2 vols.

The Korner & Wood Co., 737 Euclid Ave., Cleveland, O.
 Ouida, Pascarel. Lippincott.

Niel Morrow Ladd Co., 646 Fulton St., Brooklyn, N. Y.
 Index vol. for Freeman's History of the Norman Conquest. Macmillan, 1873-'76.
 Depew's One Hundred Years of American Commerce, 2 vols. N. Y., 1895.
 Schoolcraft's Indian Tribes, vol. 5 of the 6 vol. ed.
 Butler's Solar Biology, recent ed.

C. P. Landman & Co., Toledo, O.
Journal of Franklin Institute, April, 1890.

Latin-America Book Co., 203 Front St., N. Y.
 Kittredge, New Metal Worker Pattern Book.
 Durand, Indians of Mexico.
 Leaver's Box Making.
 Stevenson, Maximilian in Mexico.
 Wright, Hist. of the Big Bonanza. S. F., 1876.

Charles E. Lauriat Co., 385 Washington St., Boston.
 Intimations of Eternal Life, by Caroline C. Leighton.
 Poems, by Lizzie Doten, 2 vols.
 Mehan's Flowers and Ferns of the U. S.
 Pickwick Papers, Household ed. Harper.
 Bye-Ways of Life, Hichens. D., M. & Co.
 The Jeffersons, William Winter. H. M. & Co.
 The Art of Acting, George Henry Lewes. Holt & Co.

Edward E. Levi, 820 Liberty St., Pittsburg, Pa.
 Brief Popular Account of Financial Panics in the United States from 1690 to 1857. New York, Haney, 1857.

Lexington Book Shop, 120 E. 59th St., N. Y.
 Fisher, Angler's Souvenir. Warne, 1886.
 Henry, The Four Million, 1st ed.
 Perrot and Chipiez, Chaldean Art, 12 vols.
 Amer. Statesmen Ser., Lincoln, 2 vols., Franklin, Patrick Henry, gray cl., Subscription ed.

Library Clearing House, 633 Wells St., Chicago, Ill.
 Great Events by Famous Historians, 20 vols.
 Collier's Pict. Hist. Russ.-Jap. War.
 Luther, On Romans and Galatians.
 Bibliographica, set in nos.
 Blue Devil, comp. set.

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 20 copies, second-hand, Cheyney's Short History English People.
 Copies of Carhart and Chute's High School Physics, 1907 ed.

Little, Brown & Co., 34 Beacon St., Boston.
 Chambers's Miscellanies.
 Sir F. Galton, On Insanity.
 Sir F. Galton, On Heredity.

J. S. Lockwood, 530 Atlantic Ave., Boston, Mass.
 Leigh Hunt's Poems, Ticknor's Blue and Gold ed.

Louisville Free Public Library, Louisville, Ky.
International Studio for Jan., 1910.
 Memoirs of Comtesse deBoigne, vol. 1 only, cl. N. Y., Scribner.

W. H. Lowdermilk & Co., Washington, D. C.
 Morford, Rhymes of Twenty Years.
 Gilmor, Four Years in the Saddle.
 Seward at Washington as Senator and Secretary of State, 1846-'61.
 Mark Twain, Tom Sawyer, original blue cloth ed.
 Wolf, Other Things Being Equal.
 Poinsett, Notes on Mexico in 1822, by a Citizen of U. S.
 Butcher, The Ecclesiastical Calendar.

M. E. Book Room, 1018 Arch St., Phila., Pa.
 Ecclesiastical Law, by Harris and Henry.
 Three Hundred Fighting Regiments, by Fox.
 Any books by Josiah Royce.
 Any books by Henry James.
 Priest, Woman and Confessional.

McDevitt-Wilson, 30 Church St., N. Y.
 Concerning the Fast Before Communion, by Father Fuller.
 The Love Story of Abner Stone, by Litsey.

McGraw-Hill Book Co., 239 W. 39th St., N. Y.
 Meyer, Steam Power Plants, ed. of 1902.
 Houston, Elect. in Everyday Life, 3 vols. Must be in good condition.

David MacTaggart Co., Port Huron, Mich.
 Butterfield's Brute. Pub. by Helman-Taylor Co.

Henry Malkan, 42 Broadway, N. Y.
 Kingston Dutch Church Records.
 Schenk's History of Fairfield, Conn.
 Smith's History of Dutchess Co., N. Y.
 Savage's Genealogical Dictionary.
 The Theatre, 1902, '03, '08, '09.
 Griswold's Republican Court.
 History of the Oliphants. Edinburgh.
 Oliphant's Jacobite Lairds of Gask.
 Planche's Cyclopaedia of Costume, 2 vols.

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- Carpenter's Libor Amoris.
 Kenneth, My King.
 Davis's Rise and Fall of the Confederacy.
 Tarbell's History of Standard Oil.
 Moore's Impressions and Opinions.
 White's Warfare Between Religion and Science.
 Harry Gringo's Books.
 Arthur's Insubordination.
 Frazer's Golden Bough.
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 Lyall Farrigut's Life of Farragut.
 Stephens's Yucatan.
 Lossing's Hudson River.
Chatterbox, 1876, '77, '78.
 Grove's Dictionary of Music, 5 vols.
 Roger's Geology of the Virginias.
 History of Pawlet, Vt.
 George Francis Train's Book.
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 The St. Memin Collection of Portraits, Dexter. New York, 1862.
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 Coburn, On Swine.
 Balzac, Country Doctor, Deputy for Arcis and the Thirteen, in Gebbie's Sub. ed.
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 Barrett, Ordinance of 1787.
 Campbell's Millennial Harbinger for 1831, '33, '35, '63, '64, '70.
 Hamilton, Memoirs of Abbott Lawrence.
 Lawrence, Charities of France.
 Lawrence, History of Boston Dispensary.
 Lawrence, Diary and Corr. of Amos Lawrence.
 The American Pioneer, 2 vols. Chillicothe, 1842.
- Moody's Magazine, Bk. Dept., 35 Nassau St., N. Y. [Cash.]**
 Success in Speculation.
 Key to Wall Street Systems and Methods, H. W. Williams.
 Safe Methods in Stock Speculation, Wm. Y. Stafford.
- Morris Book Shop, 165 Wabash Ave., Chicago, Ill.**
 Brantome's Fair and Gallant Ladies.
 Dalliba, Battle of Brownstown. N. Y., 1816.
 Ridpath's History, 3 vols. 1885.
 Mrs. Baxter's Forty Wonders.
 Forbes, Fisheries of Illinois.
- M. W. Mounts, 602 Wylie Ave., Pittsburgh, Pa.**
 Private Life of Lord Byron.
- The H. C. Murray Co., 699 Main St., Willimantic, Conn.**
 Poems, Rossetti, Russell's illustrated ed., perfect copy.
 New Life, Dante, perfect copy. Pub. by Russell.
- John J. Newbegin, 315 Sutter St., San Francisco, Cal.**
 Vitology, by Wood.
 Ruddock Carrington's Publications.
 Maclien's Works—A Tramp Actor; Calabazas.
 Pierce Egan's Boxiana, in 5 vols., illus.
 Flasks and Flagons, by Francis Saltus.
 Shadows and Ideals, by Francis Saltus.
 Works of John Hall Stevenson.
 Translations, by Arthur Machen.
 Payne's Decamerons.
 Vitology, by Wood and Ruddock.
 Illustrated Books by Rackham.
- Martinus Nijhoff, The Hague, Holland.**
Political Science Quarterly, vols. 1, 4, 14, etc.
- W. W. Nisbet, 12 S. Broadway, St. Louis, Mo.**
 Teachings of Epictetus.
- H. G. Noel, 304 N. 4th St., St. Louis, Mo.**
 Scribner's Second Series Short Stories, Sept., 1886.
 F. R. Stockton's Amos Kilbright. N. Y., 1888.
 F. R. Stockton's Stories of Three Burglars.
 F. R. Stockton's The Merry Chanter.

Old Corner Book Store, 27 Bromfield St. Boston, Mass.

- Wallace's Prussia, 1883 ed.
 Oriental Esoteric Center, 1443 Q St., N. W., Washington, D. C.
 Phelon, Our Story of Atlantis.
E. H. Otting, Warren, O.
 Modern Thinkers, by Denslow.
 Donovan, Modern Jury Trials.
 Hedin, Trans-Himalaya.
 Hind's Precedents, vol. 2.
- W. Millard Palmer Co., 20 Monroe St., Grand Rapids, Mich.**
 Frances Lord, Christian Science Healing.
 Kingsford Maitland, The Perfect Way, or the Finding of Christ.
- O. C. Parker, 220 So. Broadway, Los Angeles, Cal.**
 Napoleon, His Sayings and Deeds, Vieusseux.
 Memoirs of Napoleon, Dictated by Himself.
 Hammer and Anvil, Spielhagen.
 Hist. Indian Tribes of N. A. McKenney & Hall.

D. L. Passavant, Zellenople, Pa.

- Brackenridge, H. H., Poem Divine Revelation. 1774.
 Brackenridge, H. H., Battle of Bunker Hill. 1776.
 Brackenridge, H. H., Death of Gen. Montgomery. 1777.
 Brackenridge, H. H., Whisky Insurrection. 1795.
 Brackenridge, H. H., U. S. Gazette, vol. 1, 1799, edited by.
 Brackenridge, H. H., Modern Chivalry. Phila., 1818, or Pittsburgh, 1819.
 Brackenridge, H. H., Gazette Publications. Carlisle, 1806.
 Brackenridge, H. M., Views La. Pittsburgh, 1814.
 Brackenridge, H. M., Journal up Missouri. Balt., 1816.
 Brackenridge, H. M., History Late War. Balt., 1818; also in Dutch, Italian, French, German.
 Brackenridge, H. M., Speech on Jew Bill. Phila., 1829.
 Brackenridge, H. M., Mexican Letters. Wash.
 Brackenridge, H. M., Letters from North and South. Pittsburgh.
 Brackenridge, H. M., Voyage to South America, 2 vols.
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 Gay Entomology, 1824-'28, vol. 3, bds., uncut.
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 Cramer's Navigators, 1814, '18, '24. Pittsburgh.

Pettis Dry Goods Co., Indianapolis, Ind.

- Mors et Victoria, a drama in 3 acts. Longmans.
Philadelphia Book Co., 17 S. 9th St., Phila., Pa.
 Thacher, Benj., Life of Geo. Robert Hawes.
Philadelphia Magazine Depot, 326 N. 10th St., Phila., Pa. [Cash.]
 Job lots of *Annals of Am. Academy*, Phila., 1890-1901.
Am. Hist. Review, 1895-'98.
Am. Journal of Politics, 1892-'94.
Am. Journal of Archaeology, 1885-'92.
Am. Naturalist, March, June, Nov., '92; Feb., '99; July, 1906; Aug., Oct. to Dec., '07.
Analectic Mag., Phila., vol. 15.
Brownson's Quarterly Review, 1844, 1861-'64, or odd nos.
Biblical Repertory, 1825, '28, '29, '31.
Bulletin of Torrey Bot. Club, job lots.
Biblia, Meriden, Conn., vols. 1-3.
Cassier's Mag., 1891-'93.
Democratic Review, 1853-'59, or odd nos.
De Bow's Review, 1846-'51, 1861-'79, or odd nos.

The Pilgrim Press, 175 Wabash Ave., Chicago, Ill.

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O. S. Pratt, 161 6th Ave., N. Y. [Cash.]
 Howell, History of Southampton, Long Island.
 The Border Warfare.
 Blavatsky, Isis Unveiled.
 Anything on Pugilism.
 Cruise of the "Bachante."

Presbyterian Board of Pub., 400 Sutter St., San Francisco, Cal.

- Arius the Libyan.
 Dorcas, Daughter of Faustina.
Presbyterian Board of Pub. and S. S. Work, 505 N. 7th St., St. Louis, Mo.
 Pulpit Commenary, second-hand.

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Quotations by mail only:

Markham, Man with the Hoe.
 Krishna, The Lord of Love.
 Memoirs of D'Artagnan, in 3 vols., trans. by Ralph Neville.
 Tyler, J., Forty Years Among Zulus.
 Sewell, Laneton Parsonage, 3 vols. Appleton, 1850.
 Ruth and Aunt Alice. Pub. by Dutton about 1860.
 Our Little Sister Comfort. Pub. by Dutton about 1860.
 A Daughter of the Huguenots, a Modern Story of Social Life in New Rochelle, N. Y.
 Richter's Hesperus, or Forty-five Dog Pest Days, 2 vols. 1865.
 Alexander, G. R., Culture by Reading. Abbey Press, 1901.
 Sewell, E. M., Modern Education of Girls.
 Sewell, E. M., Principles of Education.
 Corrected English New Testament.
 Palm, Death Penalty.
 Fuller, M., Women of 19th Century.

Raymer's Old Book Store, Seattle, Wash.

Barnabas, Epistle of, Trans. from.
 Lock, Tobacco Growing, Curing and Mfg.

W. G. Reeve, 1123 Detroit St., Denver, Colo.
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Fox, Hist. 55th Mass. Regiment. Cambridge '68.
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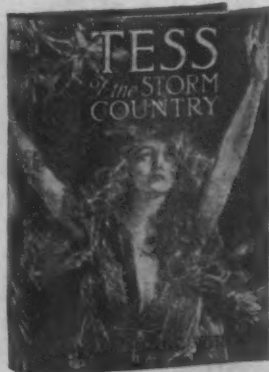


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